UNIVERSITÀ DEGLI STUDI
DI TORINO

Department of Physics
"Department of Excellence" Project

Full list of references
(2018-2023)

List of Publications 2018-2023

PUBLICATIONS OF WP1

S. Giordanengo, A. Vignati, A. Attili, M. Ciocca, M. Donetti, F. Fausti, F. M. Milian, L. Manganaro, S. Molinelli, V. Monaco, G. Russo, R. Sacchi, M. Varasteh, R. Cirio. *RIDOS: A new system for online computation of the delivered dose distributions in scanning ion beam therapy*. **Physica Medica**, 60, 139-149, Mar 2019

F. Fausti, G. Mazza, S. Giordanengo, O. H. Ali, L. Manganaro, V. Monaco, R. Sacchi, R. Cirio. *Single Event Upset tests and failure rate estimation for a front-end ASIC adopted in high-flux-particle therapy applications*. **NIM-A**, 918, 54-59, Nov 2018

V. Monti, M. Costa, E. Durisi, E. Mafucci, L. Menzio, O. Sans-Planell, L. Visca, R. Bedogni, M. Treccani, A. Pola, D. Bortot, K. Alikaniotis, G. Giannini, J. M. Gomez-Ros. *The e_LiBANS facility: A new compact thermal neutron source based on a medical electron LINAC*. **NIM-A**, 953, Nov 2019

S. Ditalia Tchernij, T. Lühmann, T. Herzig, J. Küpper, A. Damin, S. Santonocito, M. Signorile, P. Traina; E. Moreva, F. Celegato, S. Pezzagna, I. P. Degiovanni, P. Olivero, M. Jakšić, J. Meijer, M. Genovese, J. Forneris. *Single-photon emitters in lead-implanted single-crystal diamond*. **ACS Photonics,** 5 (12), 4864-4871 (2018)

J. Forneris, S. Ditalia Tchernij, P. Traina, E. Moreva, N. Skukan, M. Jakšić, V. Grilj, F. Bosia, E. Enrico, G. Amato, I. P. Degiovanni, B. Naydenov, F. Jelezko, M. Genovese, P. Olivero. *Mapping the local spatial charge in defective diamond by means of NV sensors – A "self-diagnostic" concept*. **Physical Review Applied,** 10, 014024 (2018)

V. Bonino, A. Agostino, C. Prestipino, O. Hernandez, M. Fretto, L. Mino, M. Truccato. *Structural and functional modifications induced by X-ray nanopatterning in Bi-2212 single crystals*. **CrystEngComm**, 20 (42), 6667 (2018)

G. Amato, A. Greco, E. Vittone. *Graphene Membrane as Suspended Mask for Lithography*. **Journal of Nanomaterials**, 2018, 2396593 (2018)

F. Picollo, L. Mino, A. Battiato, S. Ditalia Tchernij, J. Forneris, K. Martina, M. Sacco, S. Tagliapietra, E. Vittone, P. Olivero, A. Barge. *Synthesis and characterization of porphyrin functionalized nanodiamonds*. **Diamond and Related Materials**, 91, 22-28 (2019)

S. M. Eaton, V. Bharadwaj, B. Sotillo, A. N. Giakoumaki, R. Osellame, R. Ramponi, P. E. Barclay, J. P. Hadden, F. Picollo, F. Bosia, P. Olivero, J. Forneris, O. Jedrkiewicz, A. Chiappini, M. Ferrari. *Quantum Micro-Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation*. **Advanced Quantum Technologies**, 2, 1900006 (2019)

G. Amato, F. Beccaria, E. Landini, E. Vittone. *Raman analysis of strained graphene grown on dewetted cobalt*. **Journal of Raman Spectroscopy**, 50, 499 (2019)

E. Moreva, P. Traina, R. Kirkwood, M. Lopez, G. Brida, M. Gramegna, I. Ruo Berchera, J. Forneris, S. Ditalia Tchernij, P. Olivero, C. Chunnilall, S. Kueck, M. Genovese, I. Degiovanni. *Feasibility study towards comparison of the g(2)(0) measurement in the visible range*. **Metrologia**, 56, 015016 (2019)

G. Tomagra, C. Franchino, A. Pasquarelli, E. Carbone, P. Olivero, V. Carabelli, F. Picollo. *Simultaneous multisite detection of quantal release from PC12 cells using micro graphitic-diamond multi electrode arrays*. **Biophysical Chemistry**, 253, 106241 (2019)

G. Tomagra, P. Aprà, A. Battiato, C. Collà Ruvolo, A. Pasquarelli, A. Marcantoni, E. Carbone, V. Carabelli, P. Olivero, F. Picollo. *Micro graphite-patterned diamond sensors: Towards the simultaneous in vitro detection of molecular release and action potentials generation from excitable cells*. **Carbon**, 152, 424-433 (2019)

G. Tomagra, F. Picollo, A. Battiato, B. Picconi, S. De Marchis, A. Pasquarelli, P. Olivero, A. Marcantoni, P. Calabresi, E. Carbone, V. Carabelli. *Quantal release of dopamine and action potential firing detected in midbrain neurons by multifunctional diamond-based microarrays*. **Frontiers in Neuroscience**, 13, 288 (2019)

E. Vittone, J. Garcia Lopez, M. Jaksic, M.C. Jimenez Ramos, A. Lohstroh, Z. Pastuovic, S. Rath, R. Siegele, N. Skukan, G. Vizkelethy, A. Simon. *Determination of radiation hardness of silicon diodes.* **NIM-B**, 449, 6 (2019)

L. Gozzelino, R. Gerbaldo, G. Ghigo, F. Laviano, D. Torsello, V. Bonino, M. Truccato, D. Batalu, M. A. Grigoroscuta, M. Burduse, G. V Aldica, P. Badica. *Passive magnetic shielding by machinable MgB2 bulks: measurements and numerical simulations*. **Superconductor Science and Technology**, 32, 034004 (2019)

A. Sacco, S. Mangino, C. Portesi, E. Vittone, A. M. Rossi. *Novel approaches in tip-enhanced Raman spectroscopy: accurate measurement of enhancement factors and pesticide detection in tip dimer configuration*. **Journal of Physical Chemistry**, 123, 24723 (2019)

C. Bradac, W. Gao, J. Forneris, M. E. Trusheim, I. Aharonovich. *Quantum nanophotonics with group IV defects in diamond*. **Nature Communications**, 10, 5625 (2019)

P. Aprà, J. Ripoll-Sau, J. Manzano-Santamaría, C. Munuera, J. Forneris, S. Ditalia Tchernij, P. Olivero, F. Picollo, E. Vittone, M. D. Ynsa, "Structural characterization of 8 MeV 11B implanted diamond", **Diamond and Related Materials** 104, 107770 (2020)

F. Picollo, G. Tomagra, V. Bonino, V. Carabelli, L. Mino, P. Olivero, A. Pasquarelli, M. Truccato, "Triggering neurotransmitters secretion from single cells by x-ray nanobeam irradiation", **Nano Letters** 20, 3889-3894 (2020)

E. Moreva, E. Bernardi, P. Traina, A. Sosso, S. Ditalia Tchernij, J. Forneris, F. Picollo, G. Brida, Ż. Pastuović, I. P. Degiovanni, P. Olivero, M. Genovese, "Practical applications of quantum sensing: A simple method to enhance the sensitivity of nitrogen-vacancy-based temperature sensors", **Physical Review Applied** 13, 054057 (2020)

B.Kuhn, F. Picollo, V. Carabelli, G.Rispoli "Advanced real-time recordings of neuronal activity with tailored patch pipettes, diamond multi-electrode arrays and electrochromic voltage-sensitive dyes", **European Journal of Physiology** (2020)

E. Bernardi, E. Moreva, P. Traina, G. Petrini, S. Ditalia Techernij, J. Forneris, Ż. Pastuović, I. P. Degiovanni, P. Olivero, M. Genovese, "A biocompatible technique for magnetic field sensing at (sub)cellular scale using Nitrogen-Vacancy centers", **EPJ Quantum Technology** 7, 13 (2020)

S. Ditalia Tchernij, T. Luehmann, E. Corte, F. Sardi, F. Picollo, P. Traina, M. Brajkovic, A. Crnjac, S. Pezzagna, Z Pastuovic, I.P. Degiovanni, E. Moreva, P. Apra', P. Olivero, Z. Siketic, J. Meijer, M. Genovese, J. Forneris "Fluorine-based color centers in diamond", **Scientific Reports** 10:21537 (2020)

Bonino V.; Torsello D.; Prestipino C.; Mino L.; Truccato M., "Time and space resolved modelling of the heating induced by synchrotron X-ray nanobeam", **Journal of Synchrotron Radiation** 27, Pt6, 1662 (2020)

M. Pezzarossa, E. Cepparrone, D. Cosic, M. Jaksic, G. Provatas, M. Vicentijevic, E. Vittone, "Polychromatic angle resolved IBIC analysis of silicon power diodes" Nuclear Instruments and **Methods in Physics Research B** 488 (2021) 50–63

S. Ditalia Tchernij, E. Corte, T. Lühmann, P. Traina, S. Pezzagna, I. P. Degiovanni, G. Provatas, E. Moreva, J. Meijer, P. Olivero, M. Genovese, J. Forneris,"Spectral features of Pb-related color centers in diamond – A systematic photoluminescence characterization" **New Journal of Physics** 23, 063032 (2021)

F. Picollo, A. Battiato, F. Bosia, F. Scaffidi Muta, P. Olivero, V. Rigato, S. Rubanov, "Creation of pure non-crystalline diamond nanostructures via room temperature ion irradiation and subsequent thermal annealing" **Nanoscale Advances** 3, 4156 (2021)

Muhammad Waqas Rabbani, Valentina Bonino, Luca Spessa, Angelo Agostino, Natascia De Leo, Carmelo Prestipino, Marco Truccato "Mapping of Structural Changes Induced by X-ray Nanopatterning via Nano-X-ray Diffraction and Corresponding Electrical Effects" **Cryst. Growth Des.** 21, 3299−3309 (2021)

E. Corte, S. Sachero, S. Ditalia Tchernij, T. Lühmann, S. Pezzagna, P. Traina, I. P. Degiovanni, E. Moreva, P. Olivero, J. Meijer, M. Genovese, J. Forneris, "Spectral emission dependence of tin-vacancy centers in diamond from thermal processing and chemical functionalization", **Advanced Photonics Research** 2021, 2100148.

A. Alessio; V. Bonino; T. Heisig; F. Picollo; D. Torsello; L. Mino; G. Martinez-Criado; R. Dittmann; M. Truccato, "Functional Modifications Induced via X-ray Nanopatterning in TiO2 Rutile Single Crystals", **Physica Status Solidi-Rapid Research Letters**,15 (10), 2100409 (2021).

P Aprà, L Mino, A Battiato, P Olivero, S Sturari, M C Valsania, V Varzi, F Picollo, "Interaction of Nanodiamonds with Water: Impact of Surface Chemistry on Hydrophilicity, Aggregation and Electrical Properties", **Nanomaterials**, 11, 2740 (2021).

F Gorrini,G Dorigoni, D Olivares-Postigo, R Giri, P Apra, F Picollo, A Bifone, "Long-Lived Ensembles of Shallow NV-Centers in Flat and Nanostructured Diamonds by Photoconversion", **ACS APPLIED MATERIALS & INTERFACES**, 36, 43221-43232 (2021).

A. N. Giacoumaki, G. Coccia, V. Bharadwaj, J. P. Hadden, A. J. Bennett, B. Sotillo, R. Yoshizaki, P. Olivero, O. Jedrkiewicz, R. Ramponi, S. M. Pietralunga, M. Bollani, A. Bifone, P. E. Barclay, A. Kubanek, S. M. Eaton,, " Quantum technologies in diamond enabled by laser processing",", **Applied Physics Letters** 120, 020502 (2022).

G. Andrini, E. Nieto Hernandez, G. Provatas, M. Brajkovic, A. Crnjac, S. Ditalia Tchernij, J. Forneris, V. Rigato, M. Campostrini, Z. Siketic, M. Jaksic, E. Vittone, "An ion beam spot size monitor based on a nano-machined Si photodiode probed by means of the ion beam induced charge technique", **Vacuum** 205 (2022) 111392

G. Petrini;G. Tomagra;E. Bernardi;E. Moreva;P. Traina;A. Marcantoni;F. Picollo;K. Kvaková;P. Cígler;I. Pietro Degiovanni;V. Carabelli;M. Genovese, "Nanodiamond–Quantum Sensors Reveal Temperature Variation Associated to Hippocampal Neurons Firing", **ADVANCED SCIENCE** 2, 2202014, (2022)

E. Corte, G. Andrini, E. Nieto Hernández, V. Pugliese, A. Costa, G. Magchiels, J. Moens, S.M. Tunhuma, R. Villarreal, L. M. C. Pereira, A. Vantomme, J. G. Correia, E. Bernardi, P. Traina, I.P. Degiovanni, E. Moreva, M. Genovese, S. Ditalia Tchernij, P. Olivero, U. Wahl, J. Forneris "Magnesium-Vacancy Optical Centers in Diamond", **ACS Photonics** 2023, 10, 1, 101–110

E. Vittone, P. Olivero, M. Jakšič, Zeljko Pastuovic, "4H-SiC Schottky diode radiation hardness assessment by IBIC microscopy", **Nuclear Instruments and Methods in Physics Research Section B**, Volume 537, 14-22 (2023)

A. Sytchkova, M. L. Protopapa, E. Burresi, P. Olivero, T. Dunatov, Z. Siketic, L. Tapfer, Z. Wang, H. He, Y. Wang, "Optical characterization of the impact of 100 keV protons on the optical properties of ZrO2 films prepared by ALD on fused silica substrates", **Applied Optics** 62 (7), B182-B187 (2023)

F. Bianco, E. Corte, S. Ditalia Tchernij, J. Forneris, F. Fabbri, "Engineering Multicolor Radiative Centers in hBN Flakes by Varying the Electron Beam Irradiation Parameters", **Nanomaterials** 2023, 13(4) 739

J. Christinck, F. Hirt, H. Hofer, Z. Liu, M. Etzkorn, T. Dunatov, M. Jakšić, J. Forneris, S. Kück "Bright single-photon emission from a GeV center in diamond under a microfabricated solid immersion lens at room temperature", as: **J. Appl. Phys.** 133, 193102 (2023)

M. Grippo, N. Bartosik, N. Demaria, F. Luongo. "*Wafer-level testing of the readout chip of the CMS Inner Tracker for HL-LHC",* **NIM-A**, 1044, 167496, Dec 2022

R. Arcidiacono, G. Borghi, M. Boscardin, N. Cartiglia, M. Centis Vignali, M. Costa, G-F. Dalla Betta, M. Ferrero, F. Ficorella, G. Gioachin, L. Lanteri, M. Mandurrino, L. Menzio, R. Mulargia, L. Pancheri, G. Paternoster, A. Rojas, H-F W. Sadrozinski, A. Seiden, F. Siviero, V. Sola, M. Tornago *High-accuracy 4D particle trackers with resistive silicon detectors (AC-LGAD),* **JINST** 17 (2022) C03013

F. Siviero, R. Arcidiacono, G. Borghi, M. Boscardin, N. Cartiglia, M. Centis Vignali, M. Costa, G-F. Dalla Betta, M. Ferrero, F. Ficorella, G. Gioachin, L. Lanteri, M. Mandurrino, L. Menzio, R. Mulargia, L. Pancheri, G. Paternoster, A. Rojas, H-F W. Sadrozinski, A. Seiden, V. Sola, M. Tornago
Optimization of the gain layer design of Ultra-Fast Silicon Detectors, **NIM A** 1033 (2022) 166739

N. Cartiglia, R. Arcidiacono, G. Borghi, M. Boscardin, M. Costa, Z. Galloway, F. Fausti, M. Ferrero, F. Ficorella, M. Mandurrino, S. Mazza, E.J. Olave, G. Paternoster, H-F W. Sadrozinski, A. Seiden, F. Siviero, V. Sola, A. Staiano, M. Tornago, Y. Zhao *LGAD design for Future Particle Trackers*, **NIM A** 979 (2020) 164383

R. Arcidiacono, G. Borghi, M. Boscardin, N. Cartiglia, M. Costa, G-F. Dalla Betta, F. Fausti, M. Ferrero, F. Ficorella, M. Mandurrino, S. Mazza, E.J. Olave, G. Paternoster, H-F W. Sadrozinski, A. Seiden, F. Siviero, V. Sola, A. Staiano, M. Tornago, Y. Zhao
State-of-the-art and evolution of UFSD sensors design at FBK, **NIM A**, 978 (2020) 164375

M. Ferrero, R. Arcidiacono, G. Borghi, M. Boscardin, N. Cartiglia, M. Costa, G-F. Dalla Betta, F. Fausti, F. Ficorella, M. Mandurrino, M.M. Obertino, L. Pancheri, G. Paternoster, F. Siviero, V. Sola, A. Staiano, M. Tornago, M. Centis Vignali
Evolution of the design of ultra fast silicon detector to cope with high irradiation fluences and fine segmentation, **JINST** 15 (2020) C04027

E. Mafucci, R. Bedogni, M. Costa, E. Durisi, L. Menzio, V. Monti, O. Sans-Planell, L. Visca, F. Grazzi, A. Lega, S. Altieri, A. Scherillo
Development of a compact neutron collimator for imaging techniques within the ANET project
IL NUOVO CIMENTO 44 C (2021) 151

R. Bedogni, M. Costa, E. Durisi, F. Grazzi, A. Lega, L. Menzio, V. Monti, O. Sans-Planell, L. Visca
Design of a novel compact neutron collimator
JINST 16 (2021) P08055

O. Sans-Planell, M. Costa, E. Durisi, E. Mafucci, L. Menzio, V. Monti, L. Visca, F. Grazzi, R. Bedogni, S. Altieri
First results with the ANET Compact Thermal Neutron Collimator **JINST** 16 (2021) P11025

V. Monti, M. Costa, E. Durisi, E. Mafucci, L. Menzio, O. Sans-Planell, L. Visca, F. Grazzi, R. Bedogni, S. Altieri *First neutron tomography with the novel ANET Compact Neutron Collimator* **NIM A** 1046 (2023) 167742

PUBLICATIONS OF WP2

The MAGIC Collaboration. *Teraelectronvolt emission from the gamma-ray burst GRB 190114C*. **Nature**, 575, 455-458, Nov 2019

M. Ackermann, M. Ajello, L. Baldini, J. Ballet, G. Barbiellini, D. Bastieri, R. Bellazzini, E. Bissaldi, R. D. Blandford, R. Bonino, E. Bottacini, J. Bregeon, P. Bruel, R. Buehler, E. Burns, S. Buson, R. A. Cameron, R. Caputo, P. A. Caraveo, E. Cavazzuti, S. Chen, G. Chiaro, S. Ciprini, D. Costantin, A. Cuoco, S. Cutini, F. D'Ammando, P. de la Torre Luque, F. de Palma, A. Desai, S. W. Digel, N. Di Lalla, M. Di Mauro, L. Di Venere, F. Fana Dirirsa, C. Favuzzi, A. Franckowiak, Y. Fukazawa, S. Funk, P. Fusco, F. Gargano, D. Gasparrini, N. Giglietto, F. Giordano, M. Giroletti, D. Green, I. A. Grenier, L. Guillemot, S. Guiriec, D. Horan, G. J´ohannesson, M. Kuss, S. Larsson, L. Latronico, J. Li, I. Liodakis, F. Longo, F. Loparco, P. Lubrano, J. D. Magill, S. Maldera, D. Malyshev, A. Manfreda, M. N. Mazziotta, I. Mereu, P. F. Michelson, W. Mitthumsiri, T. Mizuno, M. E. Monzani, A. Morselli, I. V. Moskalenko, M. Negro, E. Nuss, M. Orienti, E. Orlando, M. Palatiello, V. S. Paliya, D. Paneque, M. Persic, M. Pesce-Rollins, V. Petrosian, F. Piron, T. A. Porter, G. Principe, S. Raino, R. Rando, M. Razzano, S. Razzaque, A. Reimer, O. Reimer, D. Serini, C. Sgro, E. J. Siskind, G. Spandre, P. Spinelli, D. J. Suson, H. Tajima, M. Takahashi, J. B. Thayer, L. Tibaldo, D. F. Torres, E. Troja, T. M. Venters, G. Vianello, K. Wood, M. Yassine, G. Zaharijas, S. Ammazzalorso, N. Fornengo, M. Regis, and Fermi-LAT Collaboration. *Unresolved Gamma-Ray Sky through its Angular Power Spectrum*. **Phys. Rev. Lett**., 121(24):241101, Dec 2018.

S. Ammazzalorso, D. Gruen, M. Regis, S. Camera, S. Ando, N. Fornengo, K. Bechtol, S. L. Bridle, A. Choi, T. F. Eifler, M. Gatti, N. MacCrann, Y. Omori, S. Samuroff, E. Sheldon, M. A. Troxel, J. Zuntz, M. Carrasco Kind, J. Annis, S. Avila, E. Bertin, D. Brooks, D. L. Burke, A. Carnero Rosell, J. Carretero, F. J. Castander, M. Costanzi, L. N. da Costa, J. De Vicente, S. Desai, H. T. Diehl, J. P. Dietrich, P. Doel, S. Everett, B. Flaugher, P. Fosalba, J. Garcia-Bellido, E. Gaztanaga, D. W. Gerdes, T. Giannantonio, D. A. Goldstein, R. A. Gruendl, G. Gutierrez, D. L. Hollowood, K. Honscheid, D. J. James, M. Jarvis, T. Jeltema, S. Kent, N. Kuropatkin, O. Lahav, T. S. Li, M. Lima, M. A. G. Maia, J. L. Marshall, P. Melchior, F. Menanteau, R. Miquel, R. L. C. Ogando, A. Palmese, A. A. Plazas, A. K. Romer, A. Roodman, E. S. Rykoff, C. Sanchez, E. Sanchez, V. Scarpine, S. Serrano, I. Sevilla-Noarbe, M. Smith, M. Soares-Santos, F. Sobreira, E. Suchyta, M. E. C. Swanson, G. Tarle, D. Thomas, V. Vikram, and Y. Zhang. *Detection of cross-correlation between gravitational lensing and gamma rays*. **arXiv:1907.13484**, Jul 2019, accepted for publication in **Phys. Rev. Lett.**

Simone Ammazzalorso, Nicolao Fornengo, Shunsaku Horiuchi, and Marco Regis. *Characterizing the local gamma-ray Universe via angular cross-correlations.* **Phys. Rev. D**, 98(10):103007, Nov 2018.

M. Colavincenzo, X. Tan, S. Ammazzalorso, S. Camera, M. Regis, J.-Q. Xia, N. Fornengo, *Searching for gamma-ray emission from galaxy clusters at low redshift,* **MNRAS** 491 (3) 3225

X. Tan, M. Colavincenzo, *Bounds on WIMP dark matter from galaxy clusters at low redshift*, **arXiv:1907.06905**

E. Pinetti, S. Camera, N. Fornengo, and M. Regis. *Synergies across the spectrum for particle dark matter indirect detection: how HI intensity mapping meets gamma rays*. **arXiv:1911.04989**, Nov 2019.

Silvia Manconi, Michael Korsmeier, Fiorenza Donato, Nicolao Fornengo, Marco Regis, and Hannes Zechlin. *Testing gamma-ray models of blazars in the extragalactic sky.* **arXiv:1912.01622**, Dec 2019

M. Korsmeier, F. Donato, N. Fornengo, *Prospects to verify a possible dark matter hint in cosmic antiprotons with antideuterons and antihelium*, **Phys. Rev. D** 97 (2018) no.10, 103011

Silvia Manconi, Mattia Di Mauro, and Fiorenza Donato. *Multimessenger constraints to the local emission of cosmic-ray electrons.* **JCAP**, 1904:024, 2019.

Mattia Di Mauro, Silvia Manconi, and Fiorenza Donato. *Detection of a gamma-ray halo around Geminga with the Fermi-LAT and implications for the positron flux.* **Phys.Rev. D 100** (2019) no.12, 123015

Mattia Di Mauro, Silvia Manconi, and Fiorenza Donato. *Evidences of low-diffusion bubbles around Galactic pulsars*. **arXiv:1908.03216**, Aug 2019

Andrea Caputo, Marco Regis, Marco Taoso, and Samuel J. Witte. *Detecting the Stimulated Decay of Axions at RadioFrequencies.* **JCAP**, 1903(03):027, 2019.

A. Caputo, M. Regis, and M. Taoso. *Searching for Sterile Neutrino with X-ray Intensity Mapping*. **arXiv:1911.09120**, Nov 2019

Luca Amendola, Stephen Appleby, Anastasios Avgoustidis, David Bacon, Tessa Baker, Marco Baldi, Nicola Bartolo, Alain Blanchard, Camille Bonvin, Stefano Borgani, Enzo Branchini, Clare Burrage, Stefano Camera, Carmelita Carbone, Luciano Casarini, Mark Cropper, Claudia de Rham, J¨org P. Dietrich, Cinzia Di Porto, Ruth Durrer, Anne Ealet, Pedro G. Ferreira, Fabio Finelli, Juan Garc´ıa-Bellido, Tommaso Giannantonio, Luigi Guzzo, Alan Heavens, Lavinia Heisenberg, Catherine Heymans, Henk Hoekstra, Lukas Hollenstein, Rory Holmes, Zhiqi Hwang, Knud Jahnke, Thomas D. Kitching, Tomi Koivisto, Martin Kunz, Giuseppe La Vacca, Eric Linder, Marisa March, Valerio Marra, Carlos Martins, Elisabetta Majerotto, Dida Markovic, David Marsh, Federico Marulli, Richard Massey, Yannick Mellier, Francesco Montanari, David F. Mota, Nelson J. Nunes, Will Percival, Valeria Pettorino, Cristiano Porciani, Claudia Quercellini, Justin Read, Massimiliano Rinaldi, Domenico Sapone, Ignacy Sawicki, Roberto Scaramella, Constantinos Skordis, Fergus Simpson, Andy Taylor, Shaun Thomas, Roberto Trotta, Licia Verde, Filippo Vernizzi, Adrian Vollmer, Yun Wang, Jochen Weller, and Tom Zlosnik. *Cosmology and fundamental physics with the Euclid satellite*. **Living Reviews in Relativity**, 21(1):2, Apr 2018.

Stefano Camera, Jose Fonseca, Roy Maartens, and M´ario G. Santos. *Optimized angular power spectra for spectroscopic galaxy surveys.* **MNRAS**, 481(1):1251–1261, Nov 2018.

Zahra Gomes, Stefano Camera, Matt J. Jarvis, Catherine Hale, and Jose Fonseca. *Non-Gaussianity Constraints using Future Radio Continuum Surveys and the Multi-Tracer Technique.* **MNRAS**, page 3210, Dec 2019.

A. C. Deshpande, T. D. Kitching, V. F. Cardone, P. L. Taylor, S. Casas, S. Camera, C. Carbone, M. Kilbinger, V. Pettorino, Z. Sakr, D. Sapone, I. Tutusaus, N. Auricchio, C. Bodendorf, D. Bonino, M. Brescia, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, L. Conversi, L. Corcione, F. Dubath, S. Dusini, G. Fabbian, M. Fumana, B. Garilli, F. Grupp, H. Hoekstra, F.

Hormuth, H. Israel, K. Jahnke, S. Kermiche, B. Kubik, M. Kunz, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, R. Massey, S. Mei, M. Meneghetti, G. Meylan, L. Moscardini, C. Padilla, S. Paltani, F. Pasian, S. Pires, G. Polenta, M. Poncet, F. Raison, J. Rhodes, M. Roncarelli, R. Saglia, P. Schneider, A. Secroun, S. Serrano, G. Sirri, J. L. Starck, F. Sureau, A. N. Taylor, I. Tereno, R. Toledo-Moreo, L. Valenziano, Y. Wang, and J. Zoubian. *Euclid: On the reduced shear approximation and magnification bias for Stage IV cosmic shear experiments*. **arXiv:1912.07326**, Dec 2019.

Konstantinos Tanidis and Stefano Camera. *Developing a unified pipeline for large-scale structure data analysis with angular power spectra - I. The importance of redshift-space distortions for galaxy number counts.* **MNRAS**, 489(3):3385–3402, Nov 2019.

Roy Maartens, Sheean Jolicoeur, Obinna Umeh, Chris Clarkson, Stefano Camera, and Eline M. De Weerd. *Detecting the relativistic galaxy bispectrum*. **arXiv:1911.02398**, Nov 2019.

Euclid Collaboration, R. Barnett, S. J. Warren, D. J. Mortlock, J. G. Cuby, C. Conselice, P. C. Hewett, C. J. Willott, N. Auricchio, A. Balaguera-Antol´ınez, M. Baldi, S. Bardelli, F. Bellagamba, R. Bender, A. Biviano, D. Bonino, E. Bozzo, E. Branchini, M. Brescia, J. Brinchmann, C. Burigana, S. Camera, V. Capobianco, C. Carbone, J. Carretero, C. S. Carvalho, F. J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cl´edassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, J. Coupon, H. M. Courtois, M. Cropper, A. Da Silva, C. A. J. Duncan, S. Dusini, A. Ealet, S. Farrens, P. Fosalba, S. Fotopoulou, N. Fourmanoit, M. Frailis, M. Fumana, S. Galeotta, B. Garilli, W. Gillard, B. R. Gillis, J. Graci´a-Carpio, F. Grupp, H. Hoekstra, F. Hormuth, H. Israel, K. Jahnke, S. Kermiche, M. Kilbinger, C. C. Kirkpatrick, T. Kitching, R. Kohley, B. Kubik, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, N. Martinet, F. Marulli, R. Massey, N. Mauri, E. Medinaceli, S. Mei, Y. Mellier, R. B. Metcalf, J. J. Metge, G. Meylan, M. Moresco, L. Moscardini, E. Munari, C. Neissner, S. M. Niemi, T. Nutma, C. Padilla, S. Paltani, F. Pasian, P. Paykari, W. J. Percival, V. Pettorino, G. Polenta, M. Poncet, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, H. W. Rix, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, D. Sapone, R. Scaramella, P. Schneider, V. Scottez, A. Secroun, S. Serrano, G. Sirri, L. Stanco, F. Sureau, P. TalladaCresp´ı, D. Tavagnacco, A. N. Taylor, M. Tenti, I. Tereno, R. ToledoMoreo, F. Torradeflot, L. Valenziano, T. Vassallo, Y. Wang, A. Zacchei, G. Zamorani, J. Zoubian, and E. Zucca. *Euclid preparation. V. Predicted yield of redshift 7 < z < 9 quasars from the wide survey*. **A&A**, 631:A85, Nov 2019.

Euclid Collaboration, P. Paykari, T. D. Kitching, H. Hoekstra, R. Azzollini, V. F. Cardone, M. Cropper, C. A. J. Duncan, A. Kannawadi, L. Miller, H. Aussel, I. F. Conti, N. Auricchio, M. Baldi, S. Bardelli, A. Biviano, D. Bonino, E. Borsato, E. Bozzo, E. Branchini, S. BrauNogue, M. Brescia, J. Brinchmann, C. Burigana, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F. J. Castand er, M. Castellano, S. Cavuoti, Y. Charles, R. Cledassou, C. Colodro-Conde, G. Congedo, C. Conselice, L. Conversi, Y. Copin, J. Coupon, H. M. Courtois, A. Da Silva, X. Dupac, G. Fabbian, S. Farrens, P. G. Ferreira, P. Fosalba, N. Fourmanoit, M. Frailis, M. Fumana, S. Galeotta, B. Garilli, W. Gillard, B. R. Gillis, C. Giocoli, J. Gracia-Carpio, F. Grupp, F. Hormuth, S. Ilic, H. Israel, K. Jahnke, E. Keihanen, S. Kermiche, M. Kilbinger, C. C. Kirkpatrick, B. Kubik, M. Kunz, H. Kurki-Suonio, F. Lacasa, R. Laureijs, D. Le Mignant, S. Ligori, P. B. Lilje, I. Lloro, T. Maciaszek, E. Maiorano, O. Marggraf, M. Martinelli, N. Martinet, F. Marulli R. Massey, N. Mauri, E. Medinaceli, S. Mei, Y. Mellier, M. Meneghetti, R. B. Metcalf, M. Moresco, L. Moscardini, E. Munari, C. Neissner, R. C. Nichol, S. Niemi, T. Nutma, C. Padilla, S. Paltani, F. Pasian, V. Pettorino, S. Pires, G. Polenta, A. Pourtsidou, F. Raison, A. Renzi, J. Rhodes, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, A. G. S´anchez, D. Sapone, R. Scaramella, P. Schneider, T. Schrabback, V. Scottez, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, J. L. Starck, F. Sureau,

P. Tallada-Crespı, A. Taylor, M. Tenti, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, L. Valenziano, M. Vannier, T. Vassallo, J. Zoubian, and E. Zucca. *Euclid preparation: VI. Verifying the Performance of Cosmic Shear Experiments*. **arXiv:1910.10521**, Oct 2019.

Euclid Collaboration, A. Blanchard, S. Camera, C. Carbone, V. F. Cardone, S. Casas, S. Ilic, M. Kilbinger, T. Kitching, M. Kunz, F. Lacasa, E. Linder, E. Majerotto, K. Markovic, M. Martinelli, V. Pettorino, A. Pourtsidou, Z. Sakr, A. G. Sanchez, D. Sapone, I. Tutusaus, S. Yahia-Cherif, V. Yankelevich, S. Andreon, H. Aussel, A. BalagueraAntol´ınez, M. Baldi, S. Bardelli, R. Bender, A. Biviano, D. Bonino, A. Boucaud, E. Bozzo, E. Branchini, S. Brau-Nogue, M. Brescia, J. Brinchmann, C. Burigana, R. Cabanac, V. Capobianco, A. Cappi, J. Carretero, C. S. Carvalho, R. Casas, F. J. Castand er, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, C. Colodro-Conde, G. Congedo, C. J. Conselice, L. Conversi, Y. Copin, L. Corcione, J. Coupon, H. M. Courtois, M. Cropper, A. Da Silva, S. de la Torre, D. Di Ferdinando, F. Dubath, F. Ducret, C. A. J. Duncan, X. Dupac, S. Dusini, G. Fabbian, M. Fabricius, S. Farrens, P. Fosalba, S. Fotopoulou, N. Fourmanoit, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, S. Galeotta, W. Gillard, B. Gillis, C. Giocoli, P. G´omez-Alvarez, J. Gracia-Carpio, F. Grupp, L. Guzzo, H. Hoekstra, F. Hormuth, H. Israel, K. Jahnke, E. Keihanen, S. Kermiche, C. C. Kirkpatrick, R. Kohley, B. Kubik, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, D. Maino, E. Maiorano, O. Marggraf, N. Martinet, F. Marulli, R. Massey, E. Medinaceli, S. Mei, Y. Mellier, B. Metcalf, J. J. Metge, G. Meylan, M. Moresco, L. Moscardini, E. Munari, R. C. Nichol, S. Niemi, A. A. Nucita, C. Padilla, S. Paltani, F. Pasian, W. J. Percival, S. Pires, G. Polenta, M. Poncet, L. Pozzetti, G. D. Racca, F. Raison, A. Renzi, J. Rhodes, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, V. Scottez, A. Secroun, G. Sirri, L. Stanco, J. L. Starck, F. Sureau, P. Tallada Crespı, D. Tavagnacco, A. N. Taylor, M. Tenti, I. Tereno, R. ToledoMoreo, F. Torradeflot, L. Valenziano, T. Vassallo, G. A. Verdoes Kleijn, M. Viel, Y. Wang, A. Zacchei, J. Zoubian, and E. Zucca. *Euclid preparation: VII. Forecast validation for Euclid cosmological probes*. **arXiv:1910.09273**, Oct 2019.

Stefano Camera and Hamsa Padmanabhan. *Beyond ΛCDM with HI intensity mapping: robustness of cosmological constraints in the presence of astrophysics*. **arXiv:1910.00022**, Sep 2019.

Stefano Camera, Matteo Martinelli, and Daniele Bertacca*. Does quartessence ease cosmic tensions?* **Physics of the Dark Universe**, 23:100247, Jan 2019.

M. Lippich et al, *Comparing approximate methods for mock catalogues and covariance matrices – I. Correlation function*, **MNRAS** 482 (2019) no.2, 1786

Linda Blot et al, *Comparing approximate methods for mock catalogues and covariance matrices II: Power spectrum multipoles*, **MNRAS** 485 (2019) no.2, 2806

M. Colavincenzo et al, *Comparing approximate methods for mock catalogues and covariance matrices – III: bispectrum*, **MNRAS** 482 (2019) no.4, 4883

Ang Liu, Heng Yu, Antonaldo Diaferio, Paolo Tozzi, Ho Seong Hwang, Keiichi Umetsu, Nobuhiro Okabe, and Li-Lan Yang. *Inside a Beehive: The Multiple Merging Processes in the Galaxy Cluster Abell* 2142. **ApJ**, 863(1):102, Aug 2018.

Kenneth J. Rines, Margaret J. Geller, Antonaldo Diaferio, Ho Seong Hwang, and Jubee Sohn. *HeCS-red: Dense Hectospec Surveys of redMaPPer-selected Clusters*. **ApJ**, 862(2):172, Aug 2018.

Heng Yu, Antonaldo Diaferio, Ana Laura Serra, and Marco Baldi. *Blooming Trees: Substructures and Surrounding Groups of Galaxy Clusters*. **ApJ**, 860(2):118, Jun 2018.

Jubee Sohn, Margaret J. Geller, Kenneth J. Rines, Ho Seong Hwang, Yousuke Utsumi, and Antonaldo Diaferio. *The HectoMAP Cluster Survey. I. redMaPPer Clusters*. **ApJ**, 856(2):172, Apr 2018.

Jubee Sohn, Gayoung Chon, Hans B¨ohringer, Margaret J. Geller, Antonaldo Diaferio, Ho Seong Hwang, Yousuke Utsumi, and Kenneth J. Rines. *The HectoMAP Cluster Survey. II. X-Ray Clusters.* **ApJ**, 855(2):100, Mar 2018.

K. Nilsson, E. Lindfors, L. O. Takalo, R. Reinthal, A. Berdyugin, A. Sillanpaa, S. Ciprini, A. Halkola, P. Heinamaki, T. Hovatta, V. Kadenius, P. Nurmi, L. Ostorero, M. Pasanen, R. Rekola, J. Saarinen, J. Sainio, T. Tuominen, C. Villforth, T. Vornanen, and B. Zaprudin. *Long-term optical monitoring of TeV emitting blazars. I. Data analysis*. **A&A**, 620:A185, Dec 2018.

Juan P. Madrid, Carlos J. Donzelli, Alberto Rodr´ıguez-Ardila, Alessandro Paggi, Francesco Massaro, and Mischa Schirmer. 3C 17: *The BCG of a Galaxy Cluster at z = 0.22*. **ApJS**, 238(2):31, Oct 2018.

F. Ricci, L. Lovisari, R. P. Kraft, F. Massaro, A. Paggi, E. Liuzzo, G. Tremblay, W. R. Forman, S. Baum, C. O'Dea, and B. Wilkes. *Stormy Weather in 3C 196.1: Nuclear Outbursts and Merger Events Shape the Environment of the Hybrid Radio Galaxy 3C 196.1*. **ApJ**, 867(1):35, Nov 2018.

A. Maselli, R. P. Kraft, F. Massaro, and M. J. Hardcastle. *Focusing on the extended X-ray emission in 3C 459 with a Chandra follow-up observation.* **A&A**, 619:A75, Nov 2018.

M. C. Campigotto, A. Diaferio, and L. Fatibene. *Conformal gravity: light deflection revisited and the galactic rotation curve failure.* **Classical and Quantum Gravity**, 36(24):245014, Dec 2019.

Jubee Sohn, Margaret J. Geller, Stephen A. Walker, Ian Dell'Antonio, Antonaldo Diaferio, and Kenneth J. Rines. *The Massively Accreting* Cluster A2029**. ApJ**, 871(1):129, Jan 2019.

Malgosia Sobolewska, Aneta Siemiginowska, Matteo Guainazzi, Martin Hardcastle, Giulia Migliori, Luisa Ostorero, and Lukasz Stawarz. *First Hard X-Ray Observation of a Compact Symmetric Object: A Broadband X-Ray Study of a Radio Galaxy OQ+208 with NuSTAR and Chandra*. **ApJ**, 884(2):166, Oct 2019.

Malgosia Sobolewska, Aneta Siemiginowska, Matteo Guainazzi, Martin Hardcastle, Giulia Migliori, Luisa Ostorero, and Lukasz Stawarz. *The Impact of the Environment on the Early Stages of Radio Source Evolution*. **ApJ**, 871(1):71, Jan 2019.

F. Massaro, N. Alvarez-Crespo, A. Capetti, R. D. Baldi, I. Pillitteri, R. Campana, and A. Paggi. *Deciphering the Large-scale Environment of Radio Galaxies in the Local Universe: Where Are They Born? Where Do They Grow? Where Do They Die?* **ApJS**, 240(2):20, Feb 2019.

E. J. Marchesini, H. A. Pena-Herazo, N. ´Alvarez Crespo, F. Ricci, M. Negro, D. Milisavljevic, F. Massaro, N. Masetti, M. Land oni, V. Chavushyan, R. D'Abrusco, E. Jim´enez-Bail´on, F. La Franca, A. Paggi, H. A. Smith, and G. Tosti. *Optical spectroscopic observations of gamma-ray blazar candidates*

VIII: the 2016-2017 follow up campaign carried out at SPM, NOT, KPNO and SOAR telescopes. **Ap&SS**, 364(1):5, Jan 2019.

D. E. Harris, J. Mold´on, J. R. R. Oonk, F. Massaro, A. Paggi, A. Deller, L. Godfrey, R. Morganti, and S. G. Jorstad. *LOFAR Observations of 4C+19.44: On the Discovery of Low-frequency Spectral Curvature in Relativistic Jet Knots*. **ApJ**, 873(1):21, Mar 2019.

R. Grossova, N. Werner, K. Rajpurohit, F. Mernier, K. Lakhchaura, K. Gabanyi, R. E. A. Canning, P. Nulsen, F. Massaro, M. Sun, T. Connor, A. King, S. W. Allen, R. L. S. Frisbie, M. Donahue, and A. C. Fabian. *Powerful AGN jets and unbalanced cooling in the hot atmosphere of IC 4296.* **MNRAS**, 488(2):1917–1925, Sep 2019.

H. A. Pena-Herazo, F. Massaro, V. Chavushyan, E. J. Marchesini, A. Paggi, M. Landoni, N. Masetti, F. Ricci, R. D'Abrusco, D. Milisavljevic, E. Jim´enez-Bail´on, F. La Franca, Howard A. Smith, and G. Tosti. *Optical spectroscopic observations of gamma-ray blazar candidates. IX. Optical archival spectra and further observations from SOAR and OAGH*. **Ap&SS**, 364(5):85, May 2019.

Raniere de Menezes, Harold A. Pena-Herazo, Ezequiel J. Marchesini, Raffaele D'Abrusco, Nicola Masetti, Rodrigo Nemmen, Francesco Massaro, Federica Ricci, Marco Landoni, Alessandro Paggi, and Howard A. Smith. *Optical characterization of WISE selected blazar candidates*. **A&A**, 630:A55, Oct 2019.

E. J. Marchesini, A. Paggi, F. Massaro, N. Masetti, R. D'Abrusco, I. Andruchow, and R. de Menezes. *The gamma-ray sky seen at X-ray energies. I. Searching for the connection between X-rays and gamma-rays in Fermi BL Lac objects*. **A&A**, 631:A150, Nov 2019.

Jubee Sohn, Margaret J. Geller, Antonaldo Diaferio, and Kenneth J. Rines. *Velocity Dispersions of Brightest Cluster Galaxies and Their Host Clusters*. **arXiv:1910.11192**, Oct 2019.

A. Wojtowicz, L. Stawarz, C. C. Cheung, L. Ostorero, E. Kosmaczewski, and A. Siemiginowska. *On the Jet Production Efficiency in a Sample of the Youngest Radio Galaxies.* **arXiv:1911.01197**, Nov 2019.

K. Nilsson, E. Lindfors, L. O. Takalo, R. Reinthal, A. Berdyugin, A. Sillanpaeae, S. Ciprini, A. Halkola, P. Heinaemaeki, T. Hovatta, V. Kadenius, P. Nurmi, L. Ostorero, M. Pasanen, R. Rekola, J. Saarinen, J. Sainio, T. Tuominen, C. Villforth, T. Vornanen, and B. Zaprudin. *Long-term optical monitoring of TeV Blazars*. **VizieR Online Data Catalog**, pages J/A+A/620/A185, Nov 2018.

A. Liu, H. Yu, A. Diaferio, P. Tozzi, Ho S. Hwang, K. Umetsu, N. Okabe, and L. L. Yang. *Spectroscopic redshift catalog in A2142 field.* **VizieR Online Data Catalog**, page J/ApJ/863/102, Aug 2019.

K. J. Rines, M. J. Geller, A. Diaferio, Ho S. Hwang, and J. Sohn*. HeCS-red: Hectospec surveys of redMaPPer clus-5 ters.* **VizieR Online Data Catalog**, page J/ApJ/862/172, Aug 2019.

J. Sohn, G. Chon, H. Bohringer, M. J. Geller, A. Diaferio, H. S. Hwang, Y. Utsumi, and K. J. Rines. *The HectoMAP cluster survey. II. X-ray clusters*. **VizieR Online Data Catalog**, page J/ApJ/855/100, Jan 2019.

A. Jimenez-Gallardo, F. Massaro, A. Capetti, M. A. Prieto, A. Paggi, R. D. Baldi, R. Grossova, L. Ostorero, A. Siemiginowska, and S. Viada. *Properties of COMP2CAT sources*. **VizieR Online Data Catalog**, pages J/A+A/627/A108, Jun 2019.

Raffaele D'Abrusco, Nuria Alvarez Crespo, Francesco Massaro, Riccardo Campana, Vahram Chavushyan, Marco Landoni, Fabio La Franca, Nicola Masetti, Dan Milisavljevic, Alessandro Paggi, Federica Ricci, and Howard A. Smith. *Two New Catalogs of Blazar Candidates in the WISE Infrared Sky*. **ApJS**, 242(1):4, May 2019.

A. Jimenez-Gallardo, F. Massaro, A. Capetti, M. A. Prieto, A. Paggi, R. D. Baldi, R. Grossova, L. Ostorero, A. Siemiginowska, and S. Viada. *COMP2CAT: hunting compact double radio sources in the local Universe***. A&A**, 627:A108, Jul 2019.

A. Weltman, P. Bull, S. Camera, K. Kelley, H. Padmanabhan, J. Pritchard, A. Raccanelli, S. Riemer-Sørensen, L. Shao, S. Andrianomena, E. Athanassoula, D. Bacon, R. Barkana, G. Bertone, C. Bonvin, A. Bosma, M. Bruggen, C. Burigana, C. Bœhm, F. Calore, J. A. R. Cembranos, C. Clarkson, R. M. T. Connors, ´A. de la Cruz-Dombriz, P. K. S. Dunsby, J. Fonseca, N. Fornengo, D. Gaggero, I. Harrison, J. Larena, Y. Z. Ma, R. Maartens, M. Mendez-Isla, S. D. Mohanty, S. G. Murray, D. Parkinson, A. Pourtsidou, P. J. Quinn, M. Regis, P. Saha, M. Sahlen, M. Sakellariadou, J. Silk, T. Trombetti, F. Vazza, T. Venumadhav, F. Vidotto, F. Villaescusa-Navarro, Y. Wang, C. Weniger, L. Wolz, F. Zhang, and B. M. Gaensler. *Fundamental Physics with the Square Kilometre Array*. **arXiv:1810.02680**, Oct 2018.

A. de Angelis, V. Tatischeff, I. A. Grenier, J. McEnery, M. Mallamaci, M. Tavani, U. Oberlack, L. Hanlon, R. Walter, A. Argan, P. von Ballmoos, A. Bulgarelli, A. Bykov, M. Hernanz, G. Kanbach, I. Kuvvetli, M. Pearce, A. Zdziarski, J. Conrad, G. Ghisellini, A. Harding, J. Isern, M. Leising, F. Longo, G. Madejski, M. Martinez, M. N. Mazziotta, J. M. Paredes, M. Pohl, R. Rando, M. Razzano, A. Aboudan, M. Ackermann, A. Addazi, M. Ajello, C. Albertus, J. M. ´Alvarez, G. Ambrosi, S. Anton, L. A. Antonelli, A. Babic, B. Baibussinov, M. Balbo, L. Baldini, S. Balman, C. Bambi, U. Barres de Almeida, J. A. Barrio, R. Bartels, D. Bastieri, W. Bednarek, D. Bernard, E. Bernardini, T. Bernasconi, B. Bertucci, A. Biland, E. Bissaldi, M. Boettcher, V. Bonvicini, V. Bosch-Ramon, E. Bottacini, V. Bozhilov, T. Bretz, M. Branchesi, V. Brdar, T. Bringmann, A. Brogna, C. Budtz Jørgensen, G. Busetto, S. Buson, M. Busso, A. Caccianiga, S. Camera, R. Campana, P. Caraveo, M. Cardillo, P. Carlson, S. Celestin, M. Cermeno, A. Chen, C. C. Cheung, E. Churazov, S. Ciprini, A. Coc, S. Colafrancesco, A. Coleiro, W. Collmar, P. Coppi, R. Curado da Silva, S. Cutini, F. D'Ammand o, B. de Lotto, D. de Martino, A. De Rosa, M. Del Santo, L. Delgado, R. Diehl, S. Dietrich, A. D. Dolgov, A. Dom´ınguez, D. Dominis Prester, I. Donnarumma, D. Dorner, M. Doro, M. Dutra, D. Elsaesser, M. Fabrizio, A. Fernandez-Barral, V. Fioretti, L. Foffano, V. Formato, N. Fornengo, L. Foschini, A. Franceschini, A. Franckowiak, S. Funk, F. Fuschino, D. Gaggero, G. Galanti, F. Gargano, D. Gasparrini, R. Gehrz, P. Giammaria, N. Giglietto, P. Giommi, F. Giordano, M. Giroletti, G. Ghirlanda, N. Godinovic, C. Gouiff´es, J. E. Grove, C. Hamadache, D. H. Hartmann, M. Hayashida, A. Hryczuk, P. Jean, T. Johnson, J. Jose, S. Kaufmann, B. Khelifi, J. Kiener, J. Knodlseder, M. Kole, J. Kopp, V. Kozhuharov, C. Labanti, S. Lalkovski, P. Laurent, O. Limousin, M. Linares, E. Lindfors, M. Lindner, J. Liu, S. Lombardi, F. Loparco, R. L´opez-Coto, M. Lopez Moya, B. Lott, P. Lubrano, D. Malyshev, N. Mankuzhiyil, K. Mannheim, M. J. Marcha, A. Marciano, B. Marcote, M. Mariotti, M. Marisaldi, S. McBreen, S. Mereghetti, A. Merle, R. Mignani, G. Minervini, A. Moiseev, A. Morselli, F. Moura, K. Nakazawa, L. Nava, D. Nieto, M. Orienti, M. Orio, E. Orland o, P. Orleanski, S. Paiano, R. Paoletti, A. Papitto, M. Pasquato, B. Patricelli, M. A. Perez-Garcıa, M. Persic, G. Piano, A. Pichel, M. Pimenta, C. Pittori, T. Porter, J. Poutanen, E. Prandini, N. Prantzos, N. Produit, S. Profumo, F. S. Queiroz, S. Raino, A. Raklev, M. Regis, I. Reichardt, Y. Rephaeli, J. Rico, W. Rodejohann,

G. Rodriguez Fernandez, M. Roncadelli, L. Roso, A. Rovero, R. Ruffini, G. Sala, M. A. S´anchez-Conde, A. Santangelo, P. Saz Parkinson, T. Sbarrato, A. Shearer, R. Shellard, K. Short, T. Siegert, C. Siqueira, P. Spinelli, A. Stamerra, S. Starrfield, A. Strong, Strumke, F. Tavecchio, R. Taverna, T. Terzic, D. J. Thompson, O. Tibolla, D. F. Torres, R. Turolla, A. Ulyanov, A. Ursi, A. Vacchi, J. van den Abeele, G. Vankova-Kirilovai, C. Venter, F. Verrecchia, P. Vincent, X. Wang, C. Weniger, X. Wu, G. Zaharijas, L. Zampieri, S. Zane, S. Zimmer, A. Zoglauer, and E-Astrogam Collaboration. *Science with eASTROGAM. A space mission for MeV-GeV gamma-ray astrophysics*. **Journal of High Energy Astrophysics**, 19:1–106, Aug 2018.

J. Singal, J. Haider, M. Ajello, D. R. Ballantyne, E. Bunn, J. Condon, J. Dowell, D. Fixsen, N. Fornengo, B. Harms, G. Holder, E. Jones, K. Kellermann, A. Kogut, T. Linden, R. Monsalve, P. Mertsch, E. Murphy, E. Orlando, M. Regis, D. Scott, T. Vernstrom, and L. Xu. *The Radio Synchrotron Background: Conference Summary and Report.* **PASP**, 130(985):036001, Mar 2018.

F. Malbet, U. Abbas, J. Alves, C. Boehm, W. Brown, L. Chemin, A. Correia, F. Courbin, J. Darling, A. Diaferio, M. Fortin, M. Fridlund, O. Gnedin, B. Holl, A. Krone-Martins, A. Leger, L. Labadie, J. Laskar, G. Mamon, B. McArthur, D. Michalik, A. Moitinho, M. Oertel, L. Ostorero, J. Schneider, P. Scott, M. Shao, A. Sozzetti, J. Tomsick, M. Valluri, and R. Wyse. *ESA Voyage 2050 white paper – Faint objects in motion: the new frontier of high precision astrometry*. **arXiv:1910.08028**, Oct 2019.

Square Kilometre Array Cosmology Science Working Group, David J. Bacon, Richard A. Battye, Philip Bull, Stefano Camera, Pedro G. Ferreira, Ian Harrison, David Parkinson, Alkistis Pourtsidou, Mario G. Santos, Laura Wolz, Filipe Abdalla, Yashar Akrami, David Alonso, Sambatra Andrianomena, Mario Ballardini, Jose Luis Bernal, Daniele Bertacca, Carlos A. P. Bengaly, Anna Bonaldi, Camille Bonvin, Michael L. Brown, Emma Chapman, Song Chen, Xuelei Chen, Steven Cunnington, Tamara M. Davis, Clive Dickinson, Jose Fonseca, Keith Grainge, Stuart Harper, Matt J. Jarvis, Roy Maartens, Natasha Maddox, Hamsa Padmanabhan, Jonathan R. Pritchard, Alvise Raccanelli, Marzia Rivi, Sambit Roychowdhury, Martin Sahlen, Dominik J. Schwarz, Thilo M. Siewert, Matteo Viel, Francisco Villaescusa-Navarro, Yidong Xu, Daisuke Yamauchi, and Joe Zuntz. *Cosmology with Phase 1 of the Square Kilometre Array; Red Book 2018: Technical specifications and performance forecasts*. **arXiv:1811.02743**, Nov 2018.

M. Di Mauro, S. Manconi, F. Donato, *Prospects for the detection of synchrotron halos around middle-age pulsars*, Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers 183, Bulletin of the American Astronomical Society, Vol. 51, Issue 3, 183 (2019), **arXiv:1903.05699**.

IXPE Collaboration: Valery F. Suleimanov, Sofia V. Forsblom, Sergey S. Tsygankov, Juri Poutanen, Victor Doroshenko, Rosalia Doroshenko, Fiamma Capitanio, Alessandro Di Marco, Denis González-Caniulef, Jeremy Heyl, Fabio La Monaca, Alexander A. Lutovinov, Sergey V. Molkov, Christian Malacaria, Alexander A. Mushtukov, Andrey E. Shtykovsky, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolò Di Lalla, Immacolata Donnarumma, Michal Dovčiak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Philip Kaaret, Vladimir Karas, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Alan P. Marscher, Herman L.

Marshall, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Fabio Muleri, Michela Negro, Chi-Yung Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce Rollins, Pierre Olivier Petrucci, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Roberto Turolla , Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Fei Xie, Silvia Zane, *X-ray polarimetry of the accreting pulsar GX 301-2*, **arXiv:2305.15309,** May 2023

IXPE Collaboration, A. Ingram, M. Ewing, A. Marinucci, D. Tagliacozzo, D. J. Rosario, A. Veledina, D. E. Kim, F. Marin, S. Bianchi, J. Poutanen, G. Matt, H. L. Marshall, F. Ursini, A. De Rosa, P-O. Petrucci, G. Madejski, T. Barnouin, L. Di Gesu, M. Dovvciak, V. E. Gianolli, H. Krawczynski, V. Loktev, R. Middei, J. Podgorny, S. Puccetti, A. Ratheesh, P. Soffitta, F. Tombesi, S. R. Ehlert, F. Massaro, I. Agudo, L. A. Antonelli, M. Bachetti, L. Baldini, W. H. Baumgartner, R. Bellazzini, S. D. Bongiorno, R. Bonino, A. Brez, N. Bucciantini, F. Capitanio, S. Castellano, E. Cavazzuti, C.-T. Chen, S. Ciprini, E. Costa, E. Del Monte, N. Di Lalla, A. Di Marco, I. Donnarumma, V. Doroshenko, T. Enoto, Y. Evangelista, S. Fabiani, R. Ferrazzoli, J. A. Garcia, S. Gunji, J. Heyl, W. Iwakiri, S. G. Jorstad, P. Kaaret, V. Karas, F. Kislat, T. Kitaguchi, J. J. Kolodziejczak, F. La Monaca, L. Latronico, I. Liodakis, S. Maldera, A. Manfreda, A. P. Marscher, I. Mitsuishi, T. Mizuno, F. Muleri, M. Negro, C.-Y. Ng, S. L. ODell, N. Omodei, C. Oppedisano, A. Papitto, G. G. Pavlov, A. L. Peirson, M. Perri, M. Pesce-Rollins, M. Pilia, A. Possenti, B. D. Ramsey, J. Rankin, O. J. Roberts, R. W. Romani, C. Sgro, P. Slane, G. Spandre, D. A. Swartz, T. Tamagawa, F. Tavecchio, R. Taverna, Y. Tawara, A. F. Tennant, N. E. Thomas , A. Trois, S. S. Tsygankov, R. Turolla, J. Vink, M. C. Weisskopf, K. Wu, F. Xie, S. Zane, *The X-ray polarisation of the Seyfert 1 galaxy IC 4329A,* **arXiv.2305.13028,** May 2023

IXPE Collaboration, Laura Di Gesu, Herman L. Marshall, Steven R. Ehlert, Dawoon E. Kim, Immacolata Donnarumma, Fabrizio Tavecchio, Ioannis Liodakis, Sebastian Kiehlmann, Iván Agudo, Svetlana G. Jorstad, Fabio Muleri, Alan P. Marscher, Simonetta Puccetti, Riccardo Middei, Matteo Perri, Luigi Pacciani, Michela Negro, Roger W. Romani, Alessandro Di Marco, Dmitry Blinov, Ioakeim G. Bourbah, Evangelos Kontopodis, Nikos Mandarakas, Stylianos Romanopoulos, Raphael Skalidis, Anna Vervelaki, Carolina Casadio, Juan Escudero, Ioannis Myserlis, Mark Gurwell, Ramprasad Rao, Garrett Keating, Pouya M. Kouch, Elina Lindfors, Francisco Josè Aceituno, Maria I. Bernardos, Giacomo Bonnoli, Vìctor Casanova, Maya Garcìa-Comas, Beatriz Agìs-Gonzàlez, Cèsar Husillos, Alessandro Marchini, Alfredo Sota, Ryo Imazawa, Mahito Sasada, Yasushi Fukazawa, Koji S. Kawabata, Makoto Uemura, Tsunefumi Mizuno, Tatsuya Nakaoka, Hiroshi Akitaya, Sergey S. Savchenko, Andrey A. Vasilyev, Josè L. Gòmez, Lucio A. Antonelli, Thibault Barnouin, Raffaella Bonino, Elisabetta Cavazzuti, Luigi Costamante, Chien-Ting Chen, Nicolò Cibrario, Alessandra De Rosa, Federico Di Pierro, Manel Errando, Philip Kaaret, Vladimir Karas, Henric Krawczynski, Lindsey Lisalda, Grzegorz Madejski, Christian Malacaria, Frédéric Marin, Andrea Marinucci, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Stephen L. O'Dell, Alessandro Paggi, Abel L. Peirson, Pierre-Olivier Petrucci, Brian D. Ramsey, Allyn F. Tennant, Kinwah Wu, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Alessandro Brez, Niccolò Bucciantini, Fiamma Capitanio, Simone Castellano, Stefano Ciprini, Enrico Costa, Ettore Del Monte, Niccolò Di Lalla, Victor Doroshenko, Michal Dovčiak, Teruaki Enoto, Yuri Evangelista , Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Fabio La Monaca, Luca Latronico, Simone Maldera, Alberto Manfreda, C.-Y. Ng, Nicola Omodei, Chiara Oppedisano, Alessandro

Papitto, George G. Pavlov, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Juri Poutanen, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Carmelo Sgrò, Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Toru Tamagawa, Roberto Taverna, Yuzuru Tawara, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey S. Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Fei Xie, Silvia Zane, *Discovery of X-ray polarization angle rotation in active galaxy Mrk 421,* **arXiv.2305.13497***, May 2023*

Mattia Di Mauro, Chiara Arina, Nicolao Fornengo, Jan Heisig, Daniele Massaro, *Dark matter at the Higgs resonance,* **arXiv.2305.11937***, May 2023*

IXPE Collaboration, D. Tagliacozzo, A. Marinucci, F. Ursini, G. Matt, S. Bianchi, L. Baldini, T. Barnouin, N. Cavero Rodriguez, A. De Rosa, L. Di Gesu, M. Dovciak, D. Harper, A. Ingram, V. Karas, D. E. Kim, H. Krawczynski, G. Madejski, F. Marin, R. Middei, H. L. Marshall, F. Muleri, C. Panagiotou, P. O. Petrucci, J. Podgorny, J. Poutanen, S. Puccetti, P. Soffitta, F. Tombesi, A. Veledina, W. Zhang, I. Agudo, L. A. Antonelli, M. Bachetti, W. H. Baumgartner, R. Bellazzini, S. D. Bongiorno, R. Bonino, A. Brez, N. Bucciantini, F. Capitanio, S. Castellano, E. Cavazzuti, C. T. Chen, S. Ciprini, E. Costa, E. Del Monte, N. Di Lalla, A. Di Marco, I. Donnarumma, V. Doroshenko, S. R. Ehlert, T. Enoto, Y. Evangelista, S. Fabiani, R. Ferrazzoli, J. A. Garcia, S. Gunji, J. Heyl, W. Iwakiri, S. G. Jorstad, P. Kaaret, F. Kislat, T. Kitaguchi, J. J. Kolodziejczak, F. La Monaca, L. Latronico, I. Liodakis, S. Maldera, A. Manfreda, A. P. Marscher, F. Massaro, I. Mitsuishi, T. Mizuno, M. Negro, C. Y. Ng, S. L. O'Dell, N. Omodei, C. Oppedisano, A. Papitto, G. G. Pavlov, A. L. Peirson, M. Perri, M. Pesce Rollins, M. Pilia, A. Possenti, B. D. Ramsey, J. Rankin, A. Ratheesh, O. J. Roberts, R. W. Romani, C. Sgrò, P. Slane, G. Spandre, D. A. Swartz, T. Tamagawa, F. Tavecchio, R. Taverna, Y. Tawara, A. F. Tennant, N. E. Thomas , A. Trois, S. S. Tsygankov, R. Turolla, J. Vink, M. C. Weisskopf, K. Wu, F. Xie, S. Zane, *The geometry of the hot corona in MCG-05-23-16 constrained by X-ray polarimetry*, **arXiv.2305.10213**, May 2023

Euclid Collaboration: M. Schirmer (1), K. Thürmer (2), B. Bras (3), M. Cropper (4), J. Martin-Fleitas (5), Y. Goueffon (6), R. Kohley (7), A. Mora (8), M. Portaluppi (3), G. D. Racca (3), A. D. Short (3), S. Szmolka (3), L. M. Gaspar Venancio (3), M. Altmann (9 and 10), Z. Balog (9), U. Bastian (9), M. Biermann (9), D. Busonero (11), C. Fabricius (12 and 13), F. Grupp (14 and 15), C. Jordi (12 and 16 and 13), W. Löffler (9), A. Sagristà Sellés (9), N. Aghanim (17), A. Amara (18), L. Amendola (19), M. Baldi (20 and 21 and 22), C. Bodendorf (14), D. Bonino (11), E. Branchini (23 and 24), M. Brescia (25 and 26), J. Brinchmann (27), S. Camera (28 and 29 and 11), G. P. Candini (4), V. Capobianco (11), C. Carbone (30), J. Carretero (31 and 32), M. Castellano (33), S. Cavuoti (26 and 34), A. Cimatti (35), R. Cledassou (36 and 37), G. Congedo (38), C. J. Conselice (39), L. Conversi (40 and 7), Y. Copin (41), L. Corcione (11), F. Courbin (42), A. Da Silva (43 and 44), H. Degaudenzi (45), A. M. Di Giorgio (46), J. Dinis (44 and 43), F. Dubath (45), X. Dupac (7), S. Dusini (47), S. Farrens (48), S. Ferriol (41), M. Frailis (49), E. Franceschi (21), M. Fumana (30), S. Galeotta (49), B. Garilli (30), W. Gillard (50), B. Gillis (38), C. Giocoli (21 and 22), S. V. H. Haugan (51), H. Hoekstra (52), W. Holmes (53), F. Hormuth (54), A. Hornstrup (55 and 56), K. Jahnke (1), S. Kermiche (50), A. Kiessling (53), M. Kilbinger (48), T. Kitching (4), M. Kunz (57), H. Kurki-Suonio (58 and 59), S. Ligori (11), P. B. Lilje (51), I. Lloro (60), E. Maiorano (21), O. Mansutti (49), O. Marggraf (61), K. Markovic (53), F. Marulli (20 and 21 and 22), R. Massey (62), E. Medinaceli (21), S. Mei (63), Y. Mellier (64 and 65 and 66), M. Meneghetti (21 and 22), E. Merlin (33), G. Meylan (42), M. Moresco (20 and 21), L. Moscardini (20 and 21 and 22), E. Munari (49), R. Nakajima (61), S.-M. Niemi (3), J. W. Nightingale (62), T. Nutma (67 and 52), C. Padilla (31), S. Paltani (45), F. Pasian (49), V. Pettorino (48), S. Pires (68), G. Polenta (69), M. Poncet (36), L. A.

Popa (70), F. Raison (14), A. Renzi (71 and 47), J. Rhodes (53), G. Riccio (26), E. Romelli (49), M. Roncarelli (21), E. Rossetti (72), R. Saglia (73 and 14), D. Sapone (74), B. Sartoris (73 and 49), P. Schneider (61), A. Secroun (50), G. Seidel (1), S. Serrano (13 and 75), C. Sirignano (71 and 47), G. Sirri (22), J. Skottfelt (76), L. Stanco (47), P. Tallada-Crespí (77 and 32), A. N. Taylor (38), I. Tereno (43 and 78), R. Toledo-Moreo (79), I. Tutusaus (80), E. A. Valentijn (67), L. Valenziano (21 and 81), T. Vassallo (49), Y. Wang (82), J. Weller (73 and 14), A. Zacchei (49 and 83), J. Zoubian (50), S. Andreon (84), S. Bardelli (21), P. Battaglia (21), E. Bozzo (45), C. Colodro-Conde (85), M. Farina (46), J. Graciá-Carpio (14), E. Keihänen (86), V. Lindholm (58 and 59), D. Maino (87 and 30 and 88), N. Mauri (35 and 22), N. Morisset (45), V. Scottez (64 and 89), M. Tenti (81), E. Zucca (21), Y. Akrami (90 and 91 and 92 and 93 and 94), C. Baccigalupi (95 and 83 and 49 and 96), M. Ballardini (97 and 98 and 21), A. Biviano (49 and 83), A. Blanchard (80), A. S. Borlaff (99 and 100), C. Burigana (101 and 81), R. Cabanac (80), A. Cappi (21 and 102), C. S. Carvalho (78), S. Casas (103), G. Castignani (20 and 21), T. Castro (49 and 96 and 83), K. C. Chambers (104), A. R. Cooray (105), J. Coupon (45), H. M. Courtois (106), J.-G. Cuby (107 and 108), S. Davini (24), G. De Lucia (49), G. Desprez (109), S. Di Domizio (110), H. Dole (17), J. A. Escartin (14), S. Escoffier (50), I. Ferrero (51), L. Gabarra (71 and 47), K. Ganga (63), J. Garcia-Bellido (90), K. George (15), F. Giacomini (22), G. Gozaliasl (58), H. Hildebrandt (111), J. J. E. Kajava (112), V. Kansal (113), C. C. Kirkpatrick (86), L. Legrand (57), P. Liebing (4), A. Loureiro (38 and 94), G. Maggio (49), M. Magliocchetti (46), G. Mainetti (114), R. Maoli (115 and 33), S. Marcin (116), M. Martinelli (33 and 117), N. Martinet (108), C. J. A. P. Martins (118 and 27), S. Matthew (38), M. Maturi (19 and 119), L. Maurin (17), R. B. Metcalf (20), P. Monaco (120 and 49 and 96 and 83), G. Morgante (21), S. Nadathur (18), A. A. Nucita (121 and 122 and 123), L. Patrizii (22), J. E. Pollack (66), V. Popa (70), D. Potter (124), M. Pöntinen (58), A. G. Sánchez (14), Z. Sakr (125 and 19 and 80), A. Schneider (124), M. Sereno (21 and 22), A. Shulevski (52 and 67), P. Simon (61), J. Steinwagner (14), R. Teyssier (126), J. Valiviita, *Euclid preparation. XXIX. Water ice in spacecraft part I: The physics of ice formation and contamination*, **arXiv:2305.10107**, **A&A in press,** May 2023

Nicole Rodriguez Cavero, Lorenzo Marra, Henric Krawczynski, Michal Dovčiak, Stefano Bianchi, James F. Steiner, Jiri Svoboda, Fiamma Capitanio, Giorgio Matt, Michela Negro, Adam Ingram, Alexandra Veledina, Roberto Taverna, Vladimir Karas, Francesco Ursini, Jakub Podgorný, Ajay Ratheesh, Valery Suleimanov, Romana Mikušincová, Silvia Zane, Philip Kaaret, Fabio Muleri, Juri Poutanen, Christian Malacaria, Pierre-Olivier Petrucci, Ephraim Gau, Kun Hu, Sohee Chun, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolò Di Lalla, Alessandro Di Marco, Immacolata Donnarumma, Victor Doroshenko, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. García, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Fabio La Monaca, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Francesco Massaro, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Chi-Yung Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Oliver J. Roberts, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Gloria Spandre, Paolo Soffitta, Douglas A. Swartz, Toru Tamagawa, Fabrizio Tavecchio, Yuzuru Tawara , Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey S. Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Fei Xie, *The First X-ray Polarization*

Observation of the Black Hole X-ray Binary 4U 1630-47 in the Steep Power Law State, **arXiv:2305.10630**, May 2023

Hamsa Padmanabhan, Roy Maartens, Obinna Umeh, Stefano Camera, *The HI intensity mapping power spectrum: insights from recent measurements*, **arXiv:2305.09720**, May 2023

IXPE Collaboration, Abel L. Peirson, Michela Negro, Ioannis Liodakis, Riccardo Middei, Dawoon E. Kim, Alan P. Marscher, Herman L. Marshall, Luigi Pacciani, Roger W. Romani, Kinwah Wu, Alessandro Di Marco, Niccolo Di Lalla, Nicola Omodei, Svetlana G. Jorstad, Ivan Agudo, Pouya M. Kouch, Elina Lindfors, Francisco Jose Aceituno, Maria I. Bernardos, Giacomo Bonnoli, Victor Casanova, Maya Garcia-Comas, Beatriz Agis-Gonzalez, Cesar Husillos, Alessandro Marchini, Alfredo Sota, Carolina Casadio, Juan Escudero, Ioannis Myserlis, Albrecht Sievers, Mark Gurwell, Ramprasad Rao, Ryo Imazawa, Mahito Sasada, Yasushi Fukazawa, Koji S. Kawabata, Makoto Uemura, Tsunefumi Mizuno, Tatsuya Nakaoka, Hiroshi Akitaya, Yeon Cheong, Hyeon-Woo Jeong, Sincheol Kang, Sang-Hyun Kim, Sang-Sung Lee, Emmanouil Angelakis, Alexander Kraus, Nicolo Cibrario, Immacolata Donnarumma, Juri Poutanen, Fabrizio Tavecchio, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolo Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Victor Doroshenko, Michal Dovciak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Philip Kaaret, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Grzegorz Madejski, Simone Maldera, Alberto Manfreda, Frederic Marin, Andrea Marinucci, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Fabio Muleri, C.-Y. Ng, Stephen L. O'Dell , Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Matteo Perri, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Carmelo Sgro, Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Toru Tamagawa, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Fei Xie, Silvia Zane, *X-ray Polarization of BL Lacertae in Outburst*, **Astrophys.J.Lett**. 948 (2023) 2, L25, May 2023

Dionysios Karagiannis, Roy Maartens, José Fonseca, Stefano Camera, Chris Clarkson, *Multi-tracer power spectra and bispectra: Formalism*, **arXiv:2305.04028**, May 2023

Marco Regis, Michael Korsmeier, Gianni Bernardi, Giada Pignataro, Javier Reynoso-Cordova, Piero Ullio, *The self-confinement of electrons and positrons from dark matter*, **arXiv.2305.01999**, May 2023

IXPE Collaboration, Ajay Ratheesh, Michal Dovčiak, Henric Krawczynski, Jakub Podgorný, Lorenzo Marra, Alexandra Veledina, Valery Suleimanov, Nicole Rodriguez Cavero, James Steiner, Jiri Svoboda, Andrea Marinucci, Stefano Bianchi, Michela Negro, Giorgio Matt, Francesco Tombesi, Juri Poutanen, Adam Ingram, Roberto Taverna, Andrew West, Vladimir Karas, Francesco Ursini, Paolo Soffitta, Fiamma Capitanio, Domenico Viscolo, Alberto Manfreda, Fabio Muleri, Maxime Parra, Banafsheh Beheshtipour, Sohee Chun, Niccolò Cibrario, Niccolò Di Lalla, Sergio Fabiani, Kun Hu, Philip Kaaret, Vladislav Loktev, Romana Mikušincová, Tsunefumi Mizuno, Nicola Omodei, Pierre-Olivier Petrucci, Simonetta Puccetti, John Rankin, Silvia Zane, Sixuan Zhang, Iván Agudo, Lucio Antonelli, Matteo Bachetti, Luca Baldini, Wayne Baumgartner, Ronaldo Bellazzini, Stephen

Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Alessandro Di Marco, Immacolata Donnarumma, Victor Doroshenko, Steven Ehlert, Teruaki Enoto, Yuri Evangelista, Riccardo Ferrazzoli, Javier Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana Jorstad, Fabian Kislat, Takao Kitaguchi, Jeffery Kolodziejczak, Fabio La Monaca, Luca Latronico, Ioannis Liodakis, Simone Maldera, Frédéric Marin, Alan Marscher, Herman Marshall, Francesco Massaro, Ikuyuki Mitsuishi, C.-Y. Ng, Stephen O'Dell, Chiara Oppedisano, Alessandro Papitto, George Pavlov, Abel Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Brian Ramsey, Oliver Roberts, Roger Romani, Carmelo Sgrò , Patrick Slane, Gloria Spandre, Douglas Swartz, Toru Tamagawa, Fabrizio Tavecchio, Yuzuru Tawara, Allyn Tennant, Nicholas Thomas, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin Weisskopf, Kinwah Wu, Fei Xie, *The high polarisation of the X-rays from the Black Hole X-ray Binary 4U 1630-47 challenges standard thin accretion disc scenario*, **arXiv.2304.12752**, Apr 2023

V. Missaglia, A. Paggi, F. Massaro, A. Capetti, R. D. Baldi, R. P. Kraft, M. Paolillo, A. Tramacere, R. Campana, I. Pillitteri*, Investigating the large-scale environment of wide-angle tailed radio galaxies in the local Universe*, **arXiv.2304.09192**, Apr 2023

IXPE Collaboration, Frédéric Marin, Eugene Churazov, Ildar Khabibullin, Riccardo Ferrazzoli, Laura Di Gesu, Thibault Barnouin, Alessandro Di Marco, Riccardo Middei, Alexey Vikhlinin, Enrico Costa, Paolo Soffitta, Fabio Muleri, Rashid Sunyaev, William Forman, Ralph Kraft, Stefano Bianchi, Immacolata Donnarumma, Pierre-Olivier Petrucci, Teruaki Enoto, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Alessandra De Rosa, Ettore Del Monte, Niccolò Di Lalla, Victor Doroshenko, Michal Dovciak, Steven R. Ehlert, Yuri Evangelista, Sergio Fabiani, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Adam Ingram, Wataru Iwakiri, Svetlana G. Jorstad, Philip Kaaret, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Michela Negro, C.-Y. Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Juri Poutanen, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Gloria Spandre, Doug Swartz, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey S. Tsygankov, Roberto Turolla, Jacco Vink , Martin C. Weisskopf, Kinwah Wu, Fei Xie, Silvia Zane, *X-ray polarization evidence for a 200 years-old flare of Sgr A∗*, **arXiv.2304.06967, Nature**, in Press, Apr 2023

IXPE Collaboration, Christian Malacaria, Jeremy Heyl, Victor Doroshenko, Sergey S. Tsygankov, Juri Poutanen, Sofia V. Forsblom, Fiamma Capitanio, Alessandro Di Marco, Yujia Du, Lorenzo Ducci, Fabio La Monaca, Alexander A. Lutovinov, Herman L. Marshall, Ilya A. Mereminskiy, Sergey V. Molkov, Mason Ng, Pierre-Olivier Petrucci, Andrea Santangelo, Andrey E. Shtykovsky, Valery F. Suleimanov, Ivan Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolo Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolo Di Lalla, Immacolata Donnarumma,

Michal Dovciak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Philip Kaaret, Vladimir Karas, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak1, Henric Krawczynski, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frederic Marin, Andrea Marinucci, Alan P. Marscher, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Fabio Muleri, Michela Negro, Chi-Yung Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Roger W. Romani, Carmelo Sgro, Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi , Alessio Trois, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Fei Xie, Silvia Zane, *A polarimetrically oriented X-ray stare at the accreting pulsar EXO 2030+375*, **arXiv.2304.00925**, Apr 2023

Mattia Di Mauro, Fiorenza Donato, Michael Korsmeier, Silvia Manconi, Luca Orusa, *A novel prediction for secondary positrons and electrons in the Galaxy*, **arXiv.2304.01261**, Apr 2023

Michele Pizzardo, Margaret J. Geller, Scott J. Kenyon, Ivana Damjanov, Antonaldo Diaferio, *An IllustrisTNG View of the Caustic Technique for Galaxy Cluster Mass Estimation*, **arXiv.2303.18147**, Mar 2023

IXPE Collaboration, A. A. Mushtukov, S. S.Tsygankov, J. Poutanen, V. Doroshenko, A. Salganik, E. Costa, A. Di Marco, J. Heyl, F. La Monaca, A. A. Lutovinov, I. A. Mereminsky, A. Papitto, A. N. Semena, A. E. Shtykovsky, V. F. Suleimanov, S. V. Forsblom, D. González-Caniulef, C. Malacaria, R.A. Sunyaev, I. Agudo, L. A. Antonelli, M. Bachetti, L. Baldini, W. H. Baumgartner, R. Bellazzini, S. Bianchi, S. D. Bongiorno, R. Bonino, A. Brez, N. Bucciantini, F. Capitanio, S. Castellano, E. Cavazzuti, C.-T. Chen, S. Ciprini, A. De Rosa, E. Del Monte, L. Di Gesu, N. Di Lalla, I. Donnarumma, M. Dovčiak, S. R. Ehlert, T. Enoto, Y. Evangelista, S. Fabiani, R. Ferrazzoli, J. A. Garcia, S. Gunji, K. Hayashida, W. Iwakiri, S. G. Jorstad, P. Kaaret, V. Karas, F. Kislat, T. Kitaguchi, J. J. Kolodziejczak, H. Krawczynski, L. Latronico, I. Liodakis, S. Maldera, A. Manfreda, F. Marin, A. P. Marscher, H. L. Marshall, F. Massaro, G. Matt, I. Mitsuishi, T. Mizuno, F. Muleri, M. Negro, C.-Y. Ng, S. L. O'Dell, N. Omodei, C. Oppedisano, G. G. Pavlov, A. L. Peirson, M. Perri, M. Pesce-Rollins, P.-O. Petrucci, M. Pilia, A. Possenti, S. Puccetti, B. D. Ramsey, J. Rankin, A. Ratheesh, O. J. Roberts, R. W. Romani, C. Sgrò, P. Slane, P. Soffitta, G. Spandre, D. A. Swartz, T. Tamagawa, F. Tavecchio, R. Taverna, Y. Tawara, A. F. Tennant, N. E. Thomas, F. Tombesi, A. Trois , R. Turolla, J. Vink, M. C. Weisskopf, K. Wu, F. Xie, S. Zane, *X-ray polarimetry of X-ray pulsar X Persei: another orthogonal rotator?*, **arXiv.2303.17325**, Mar 2023

Mattia Di Mauro, Judit Pérez-Romero, Miguel A. Sánchez-Conde, Nicolao Fornengo, *Constraining the dark matter contribution of γ rays in Cluster of galaxies using Fermi-LAT data*, **Phys.Rev.D** 107 (2023) 8, 083030

Euclid Collaboration: K. Paterson (1), M. Schirmer (1), Y. Copin (2), J.-C. Cuillandre (3), W. Gillard (4), L. A. Gutiérrez Soto (5 and 6), L. Guzzo (7 and 8 and 9), H. Hoekstra (10), T. Kitching (11), S. Paltani (12), W. J. Percival (13 and 14 and 15), M. Scodeggio (16), L. Stanghellini (17), P. N. Appleton (18 and 19), R. Laureijs (20), Y. Mellier (21 and 22 and 23), N. Aghanim (24), B. Altieri (25), A. Amara (26), N. Auricchio (27), M. Baldi (28 and 27 and 29), R. Bender (30 and 31), C. Bodendorf (30), D. Bonino (32), E. Branchini (33 and 34), M. Brescia (35), J. Brinchmann (36), S. Camera (37 and 38 and 32), V. Capobianco (32), C. Carbone (16), J. Carretero (39 and 40), F. J. Castander (41 and 42), M. Castellano

(43), S. Cavuoti (44 and 45), A. Cimatti (46), R. Cledassou (47 and 48), G. Congedo (49), C. J. Conselice (50), L. Conversi (25 and 51), L. Corcione (32), F. Courbin (52), A. Da Silva (53 and 54), H. Degaudenzi (12), J. Dinis (54 and 53), M. Douspis (24), F. Dubath (12), X. Dupac (25), S. Ferriol (2), M. Frailis (55), E. Franceschi (27), M. Fumana (16), S. Galeotta (55), B. Garilli (16), B. Gillis (49), C. Giocoli (27 and 29), A. Grazian (56), F. Grupp (30 and 31), S. V. H. Haugan (57), W. Holmes (58), A. Hornstrup (59 and 60), P. Hudelot (21), K. Jahnke (1), M. Kümmel (31), A. Kiessling (58), M. Kilbinger (61), R. Kohley (25), B. Kubik (2), M. Kunz (62), H. Kurki-Suonio (63 and 64), S. Ligori (32), P. B. Lilje (57), I. Lloro (65), E. Maiorano (27), O. Mansutti (55), O. Marggraf (66), K. Markovic (58), F. Marulli (28 and 27 and 29), R. Massey (67), E. Medinaceli (27), S. Mei (68), M. Meneghetti (27 and 29), G. Meylan (52), M. Moresco (28 and 27), L. Moscardini (28 and 27 and 29), R. Nakajima (66), S.-M. Niemi (20), J. W. Nightingale (67), T. Nutma (10 and 69), C. Padilla (39), F. Pasian (55), K. Pedersen (70), G. Polenta (71), M. Poncet (47), L. A. Popa (72), F. Raison (30), A. Renzi (73 and 74), J. Rhodes (58), G. Riccio (44), H.-W. Rix (1), E. Romelli (55), M. Roncarelli (27), E. Rossetti (75), R. Saglia (31 and 30), B. Sartoris (31 and 55), P. Schneider (66), A. Secroun (4), G. Seidel (1), S. Serrano (41 and 76), C. Sirignano (73 and 74), G. Sirri (29), J. Skottfelt (77), L. Stanco (74), P. Tallada-Crespí (78 and 40), A. N. Taylor (49), I. Tereno (53 and 79), R. Toledo-Moreo (80), F. Torradeflot (78 and 40), I. Tutusaus (81), L. Valenziano (27 and 29), T. Vassallo (55), Y. Wang (19), J. Weller (31 and 30), G. Zamorani (27), J. Zoubian (4), S. Andreon (8), S. Bardelli (27), E. Bozzo (12), C. Colodro-Conde (82), D. Di Ferdinando (29), M. Farina (83), J. Graciá-Carpio (30), E. Keihänen (84), V. Lindholm (63 and 64), D. Maino (7 and 16 and 9), N. Mauri (46 and 29), V. Scottez (21 and 85), M. Tenti (29), E. Zucca (27), Y. Akrami (86 and 87 and 88 and 89 and 90), C. Baccigalupi (91 and 92 and 55 and 93), M. Ballardini (94 and 95 and 27), A. Biviano (55 and 92), A. S. Borlaff (96), C. Burigana (94 and 97 and 98), R. Cabanac (81), A. Cappi (27 and 99), C. S. Carvalho (79), S. Casas (100), G. Castignani (28 and 27), T. Castro (55 and 93 and 92), K. C. Chambers (101), A. R. Cooray (102), J. Coupon (12), H. M. Courtois (103), S. Davini (104), G. De Lucia (55), G. Desprez (12 and 105), J. A. Escartin (30), S. Escoffier (4), I. Ferrero (57), L. Gabarra (73 and 74), J. Garcia-Bellido (86), K. George (106), F. Giacomini (29), G. Gozaliasl (63), H. Hildebrandt (107), I. Hook (108), J. J. E. Kajava (109), V. Kansal (3), C. C. Kirkpatrick (84), L. Legrand (62), A. Loureiro (49 and 90), M. Magliocchetti (83), G. Mainetti (110), R. Maoli (111 and 43), S. Marcin (112), M. Martinelli (43 and 113), N. Martinet (114), C. J. A. P. Martins (115 and 36), S. Matthew (49), L. Maurin (24), R. B. Metcalf (28 and 27), P. Monaco (116 and 55 and 93 and 92), G. Morgante (27), S. Nadathur (26), L. Patrizii (29), J. Pollack (23 and 68), C. Porciani (66), D. Potter (117), M. Pöntinen (63), A. G. Sánchez (30), Z. Sakr (118 and 119 and 81), A. Schneider (117), E. Sefusatti (55 and 93 and 92), M. Sereno (27 and 29), A. Shulevski (10 and 69), J. Stadel (117), J. Steinwagner (30), C. Valieri (29), J. Valiviita (63 and 64), A. Veropalumbo (7), M. Viel (91 and 92 and 55 and 93), I. A. Zinchenko, *Euclid preparation. XXVII. A UV-NIR spectral atlas of compact planetary nebulae for wavelength calibration* **arXiv.2303.15525**, Mar 2023

Fermi-LAT Collaboration, S.Lesage, P. Veres, M. S. Briggs, A. Goldstein, D. Kocevski, E. Burns, C. A. Wilson-Hodge, P. N. Bhat, D. Huppenkothen, C. L. Fryer, R. Hamburg, J. Racusin, E. Bissaldi, W. H. Cleveland, S. Dalessi, C. Fletcher, M. M. Giles, B. A. Hristov, C. M. Hui, B. Mailyan, S. Poolakkil, O.J. Roberts, A. von Kienlin, J. Wood, M. Ajello, M. Arimoto, L. Baldini, J. Ballet, M. G. Baring, D. Bastieri, J. Becerra Gonzalez, R. Bellazzini, E. Bissaldi, R. D. Blandford, R. Bonino, P. Bruel, S. Buson, R. A. Cameron, R. Caputo, P. A. Caraveo, E. Cavazzuti, G. Chiaro, N. Cibrario, S. Ciprini, P. Cristarella Orestano, M. Crnogorcevic, A. Cuoco, S. Cutini, F. DAmmando, S. De Gaetano, N. Di Lalla, L. Di Venere, A. Dominguez, S. J. Fegan, E. C. Ferrara, H. Fleischhack, Y. Fukazawa, S. Funk, P. Fusco, G. Galanti, V. Gammaldi, F. Gargano, C. Gasbarra, D. Gasparrini, S. Germani, F. Giacchino, N. Giglietto, R. Gill, M. Giroletti, J. Granot, D. Green, I. A. Grenier, S. Guiriec, M. Gustafsson, E. Hays, J.W. Hewitt, D. Horan, X. Hou, M. Kuss, L. Latronico, A. Laviron, M. Lemoine-Goumard, J. Li, I. Liodakis, F. Longo,

F. Loparco, L. Lorusso, M. N. Lovellette, P. Lubrano, S. Maldera, A. Manfreda, G. Marti-Devesa, M. N. Mazziotta, J. E. McEnery, I.Mereu, M. Meyer, P. F. Michelson, T. Mizuno, M. E. Monzani, A. Morselli , I. V. Moskalenko, M. Negro, E. Nuss, N. Omodei, E. Orlando, J. F. Ormes, D. Paneque, G. Panzarini, M. Persic, M. Pesce-Rollins, R. Pillera, F. Piron, H. Poon, T. A. Porter, G.Principe, S.Raino, R.Rando, B.Rani, M.Razzano, S.Razzaque, A.Reimer, O. Reimer, F. Ryde, M. Sanchez-Conde, P. M. Saz Parkinson, L. Scotton, D. Serini, C. Sgro, V. Sharma, E. J. Siskind, G. Spandre, P. Spinelli, H. Tajima, D. F. Torres, J. Valverde, T. Venters, Z. Wadiasingh, K. Wood, G. Zaharijas, *Fermi-GBM Discovery of GRB 221009A: An Extraordinarily Bright GRB from Onset to Afterglow*, **arXiv.2303.14172**. Mar 2023

IXPE Collaboration, V. E. Gianolli (1,2), D. E. Kim (3,4,5), S. Bianchi (2), B. Agís-González (6), G. Madejski (7), A. Marinucci (9), G. Matt (2), R. Middei (3,10), P-O. Petrucci (1), P. Soffitta (3), D. Tagliacozzo (2), F. Tombesi (5,11,12), F. Ursini (2), T. Barnouin (8), A. De Rosa (3), L. Di Gesu (9), A. Ingram (13), V. Loktev (14), C. Panagiotou (15), J. Podgorny (8,16,17), J. Poutanen (14), S. Puccetti (10), A. Ratheesh (3), A. Veledina (14,18), W. Zhang (19), I. Agudo (6), L.A. Antonelli (10,20), M. Bachetti (21), L. Baldini (22,23), W. H. Baumgartner (24), R. Bellazzini (22), S. D. Bongiorno (24), R. Bonino (25,26), A. Brez (22), N. Bucciantini (27,28,29), F. Capitanio (3), S. Castellano (22), E. Cavazzuti (9), C.-T. Chen (30), S. Ciprini (10,11)E. Costa (3), E. Del Monte (3), N. Di Lalla (7), A. Di Marco (3), I. Donnarumma (9), V. Doroshenko (31), M. Dovčiak (16), S. R. Ehlert (24), T. Enoto (32), Y. Evangelista (3), S. Fabiani (3), R. Ferrazzoli (3), J. A. García (33), S. Gunji (34), J. Heyl (35), W. Iwakiri (36), S. G. Jorstad (37,38), P. Kaaret (24), V. Karas (16), F. Kislat (39), T. Kitaguchi (32), J. J. Kolodziejczak (24), H. Krawczynski (40), F. La Monaca (3), L. Latronico (25), I. Liodakis (41), S. Maldera (25), A. Manfreda (22), A. P. Marscher (37), H. L. Marshall (15), F. Massaro (25,26), I. Mitsuishi (42), T. Mizuno (43), F. Muleri (3), M. Negro (44,45,46), C.-Y. Ng (47), S. L. ODell (24), N. Omodei (7), C. Oppedisano (25), A. Papitto (20), G. G. Pavlov (48), A. L. Peirson (7), M. Perri (10,20), M. Pesce-Rollins (22), M. Pilia (21), A. Possenti (21), B. D. Ramsey (24), J. Rankin (3), O. J. Roberts (30), R. W. Romani (7), C. Sgrò (22), P. Slane (49), G. Spandre (22), D. A. Swartz (30), T. Tamagawa (32), F. Tavecchio (50), R. Taverna (51), Y. Tawara (42), A. F. Tennant (24), N. E. Thomas (24), A. Trois (21), S. S. Tsygankov (14), R. Turolla (51,52), J. Vink (53), M. C. Weisskopf (24), K. Wu (52), F. Xie (54,3), S. Zane, *Uncovering the geometry of the hot X-ray corona in the Seyfert galaxy NGC4151 with IXPE*, **arXiv.2303.1254**, Mar 2023

IXPE Collaboration, Jakub Podgorny, Lorenzo Marra, Fabio Muleri, Nicole Rodriguez Cavero, Ajay Ratheesh, Michal Dovciak, Romana Mikusincova, Maimouna Brigitte, James F. Steiner, Alexandra Veledina, Stefano Bianchi, Henric Krawczynski, Jiri Svoboda, Philip Kaaret, Giorgio Matt, Javier A. Garcia, Pierre-Olivier Petrucci, Alexander A. Lutovinov, Andrey N. Semena, Alessandro Di Marco, Michela Negro, Martin C. Weisskopf, Adam Ingram, Juri Poutanen, Banfsheh Beheshtipour, Sohee Chun, Kun Hu, Tsunefumi Mizuno, Zhang Sixuan, Francesco Tombesi, Silvia Zane, Ivan Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolo Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolo Di Lalla, Immacolata Donnarumma, Victor Doroshenko, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Fabio La Monaca, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frederic Marin, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Francesco Massaro, Ikuyuki Mitsuishi, Chi-Yung Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Oliver J. Roberts, Roger W. Romani, Carmelo Sgro, Patrick Slane, Paolo Soffitta, Gloria Spandre, Doug

A. Swartz, Toru Tamagawa , Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Alessio Trois, Sergey S. Tsygankov, Roberto Turolla, Jacco Vink, Kinwah Wu, Fei Xie, *The first X-ray polarimetric observation of the black hole binary LMC X-1*, **arXiv.2303.12034**, Mar 2023

Euclid Collaboration: S. Casas (1), J. Lesgourgues (1), N. Schöneberg (2), Sabarish V. M. (1 and 3), L. Rathmann (1), M. Doerenkamp (1 and 4), M. Archidiacono (5), E. Bellini (6 and 7 and 8 and 9), S. Clesse (10), N. Frusciante (11), M. Martinelli (12 and 13), F. Pace (14 and 15 and 16), D. Sapone (17), Z. Sakr (18 and 19 and 20), A. Blanchard (20), T. Brinckmann (21 and 22), S. Camera (14 and 15 and 16), C. Carbone (23), S. Ilić (24 and 25 and 20), K. Markovic (26), V. Pettorino (27), I. Tutusaus (20), N. Aghanim (28), A. Amara (29), L. Amendola (19), N. Auricchio (30), M. Baldi (31 and 30 and 32), D. Bonino (16), E. Branchini (33 and 34), M. Brescia (11 and 35), J. Brinchmann (36), V. Capobianco (16), V. F. Cardone (12 and 13), J. Carretero (37 and 38), M. Castellano (12), S. Cavuoti (35 and 39), A. Cimatti (40), R. Cledassou (25 and 41), G. Congedo (42), L. Conversi (43 and 44), Y. Copin (45), L. Corcione (16), F. Courbin (46), M. Cropper (47), H. Degaudenzi (48), J. Dinis (49 and 50), M. Douspis (28), F. Dubath (48), X. Dupac (44), S. Dusini (51), S. Farrens (27), M. Frailis (8), E. Franceschi (30), M. Fumana (23), S. Galeotta (8), B. Garilli (23), B. Gillis (42), C. Giocoli (30 and 32), A. Grazian (52), F. Grupp (53 and 54), S. V. H. Haugan (55), F. Hormuth (56), A. Hornstrup (57 and 58), K. Jahnke (59), M. Kümmel (60), A. Kiessling (26), M. Kilbinger (27), T. Kitching (47), M. Kunz (61), H. Kurki-Suonio (62 and 63), S. Ligori (16), P. B. Lilje (55), I. Lloro (64), O. Mansutti (8), O. Marggraf (65), F. Marulli (31 and 30 and 32), R. Massey (66), E. Medinaceli (30), S. Mei (67), M. Meneghetti (30 and 32), E. Merlin (12), G. Meylan (46), M. Moresco (31 and 30), L. Moscardini (31 and 30 and 32), E. Munari (8), S.-M. Niemi (68), C. Padilla (37), S. Paltani (48), F. Pasian (8), K. Pedersen (69), W. J. Percival (70 and 71 and 72), S. Pires (73 and 74), G. Polenta (75), M. Poncet (25), L. A. Popa (76), F. Raison (53), A. Renzi (77 and 51), J. Rhodes (26), G. Riccio (35), E. Romelli (8), M. Roncarelli (30), E. Rossetti (78), R. Saglia (60 and 53), B. Sartoris (60 and 8), P. Schneider (65), A. Secroun (79), G. Seidel (59), S. Serrano (80 and 81), C. Sirignano (77 and 51), G. Sirri (32), L. Stanco (51), J.-L. Starck (73), C. Surace (82), P. Tallada-Crespí (83 and 38), A. N. Taylor (42), I. Tereno (50 and 84), R. Toledo-Moreo (85), F. Torradeflot (83 and 38), E. A. Valentijn (86), L. Valenziano (30 and 87), T. Vassallo (8), Y. Wang (88), J. Weller (60 and 53), G. Zamorani (30), J. Zoubian (79), V. Scottez (89 and 90), A. Veropalumbo, *Euclid: Validation of the MontePython forecasting tools*, **arXiv.2303.09451**, Mar 2023

Marco Cirelli, Nicolao Fornengo, Jordan Koechler, Elena Pinetti, Brandon M. Roach, *Putting all the X in one basket: Updated X-ray constraints on sub-GeV Dark Matter*, **arXiv.2303.08854**, Mar 2023

IXPE Collaboration, Alexandra Veledina, Fabio Muleri, Juri Poutanen, Jakub Podgorný, Michal Dovčiak, Fiamma Capitanio, Eugene Churazov, Alessandra De Rosa, Alessandro Di Marco, Sofia Forsblom, Philip Kaaret, Henric Krawczynski, Fabio La Monaca, Vladislav Loktev, Alexander A. Lutovinov, Sergey V. Molkov, Alexander A. Mushtukov, Ajay Ratheesh, Nicole Rodriguez Cavero, James F. Steiner, Rashid A. Sunyaev, Sergey S. Tsygankov, Andrzej A. Zdziarski, Stefano Bianchi, Joe S. Bright, Nikolaj Bursov, Enrico Costa, Elise Egron, Javier A. Garcia, David A. Green, Mark Gurwell, Adam Ingram, Jari J. E. Kajava, Ruta Kale, Alex Kraus, Denys Malyshev, Frédéric Marin, Giorgio Matt, Michael McCollough, Ilia A. Mereminskiy, Nikolaj Nizhelsky, Giovanni Piano, Maura Pilia, Carlotta Pittori, Ramprasad Rao, Simona Righini, Paolo Soffitta, Anton Shevchenko, Jiri Svoboda, Francesco Tombesi, Sergei Trushkin, Peter Tsybulev, Francesco Ursini, Martin C. Weisskopf, Kinwah Wu, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Ettore Del Monte, Laura Di Gesu, Niccolò Di

Lalla, Immacolata Donnarumma, Victor Doroshenko, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Francesco Massaro, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Michela Negro, Chi-Yung Ng , Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Oliver Roberts, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Gloria Spandre, Doug Swartz, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Alessio Trois, Roberto Turolla, Jacco Vink, Fei Xie, Silvia Zane, *Astronomical puzzle Cyg X-3 is a hidden Galactic ultraluminous X-ray source,* **arXiv.2303.01174**, Mar 2023

Abigail García-Pérez, Harold A. Peña-Herazo, Francesco Massaro, Vahram Chavushyan, Raffaele D'abrusco, Nicola Masetti, Marco Landoni, Fabio La Franca, Víctor M. Patiño-Álvarez, Raúl A. Amaya-Almazán, Dan Milisavljevic, Alessandro Paggi, Federica Ricci, Elena Jiménez-Bailón, Howard A. Smith, *Optical Spectroscopic Observations of Gamma-Ray Blazar Candidates. XII. Follow-up Observations from SOAR, Blanco, NTT, and OAN-SPM*, **Astron.J**. 165 (2023) 3, 127, Feb 2023

IXPE Collaboration, Sergey S. Tsygankov, Victor Doroshenko, Alexander A. Mushtukov, Juri Poutanen, Alessandro Di Marco, Jeremy Heyl, Fabio La Monaca, Sofia Forsblom, Christian Malacaria, Herman L. Marshall, Valery F. Suleimanov, Jiri Svoboda, Roberto Taverna, Francesco Ursini, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Chien-Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolò Di Lalla, Immacolata Donnarumma, Michal Dovčiak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Philip Kaaret, Vladimir Karas, Fabian Kislat, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Alan P. Marscher, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Fabio Muleri, Michela Negro, Chi-Yung Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel Lawrence Peirson, Matteo Perri, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Oliver J. Roberts, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Toru Tamagawa, Fabrizio Tavecchio, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu , Fei Xie, Silvia Zane, *X-ray pulsar GRO J1008−57 as an orthogonal rotator*, **arXiv.2302.06680**, Feb 2023

Euclid Collaboration: S. Radinović, S. Nadathur, H.-A. Winther, W. J. Percival, A. Woodfinden, E. Massara, E. Paillas, S. Contarini, N. Hamaus, A. Kovacs, A. Pisani, G. Verza, M. Aubert, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, S. Camera, V. Capobianco, C. Carbone, V. F. Cardone, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, A. Da Silva, M. Douspis, F. Dubath, X. Dupac, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S. V. H. Haugan, W. Holmes, A. Hornstrup, K. Jahnke, M. Kümmel, A. Kiessling, M. Kilbinger, T. Kitching, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O.

Marggraf, K. Markovic, F. Marulli, R. Massey, S. Mei, M. Melchior, Y. Mellier, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, S.-M. Niemi, J. W. Nightingale, T. Nutma, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. A. Popa, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, C. Rosset, R. Saglia, D. Sapone, B. Sartoris, P. Schneider , A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, C. Surace, P. Tallada-Crespí, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E. A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, V. Scottez, *Euclid: Cosmology forecasts from the void-galaxy cross-correlation function with reconstruction*, **arXiv.2302.05302,** Feb 2023

Euclid Collaboration: A. C. Deshpande, T. Kitching, A. Hall, M. L. Brown, N. Aghanim, L. Amendola, N. Auricchio, M. Baldi, R. Bender, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, G. P. Candini, V. Capobianco, C. Carbone, V. F. Cardone, J. Carretero, F. J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C. A. J. Duncan, X. Dupac, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, S. Galeotta, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S. V. H. Haugan, H. Hoekstra, W. Holmes, A. Hornstrup, P. Hudelot, K. Jahnke, S. Kermiche, M. Kilbinger, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, S. Mei, Y. Mellier, M. Meneghetti, G. Meylan, L. Moscardini, S.-M. Niemi, J. W. Nightingale, T. Nutma, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. A. Popa, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, T. Schrabback, A. Secroun, G. Seidel, S. Serrano , C. Sirignano, G. Sirri, L. Stanco, P. Tallada-Crespi, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E. A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, A. Boucaud, E. Bozzo, C. Colodro-Conde, D. Di Ferdinando, G. Fabbian, M. Farina, J. Gracia-Carpio, E. Keihanen, V. Lindholm, N. Mauri, V. Scottez, M. Tenti, E. Zucca, Y. Akrami, C. Baccigalupi, A. Balaguera-Antolinez, M. Ballardini, F. Bernardeau, A. Biviano, A. Blanchard, A. S. Borlaff, C. Burigana, R. Cabanac, A. Cappi, C. S. Carvalho, S. Casas, G. Castignani, T. Castro, K. C. Chambers, A. R. Cooray, J. Coupon, H.M. Courtois, S. Davini, S. de la Torre, G. De Lucia, G. Desprez, H. Dole, J. A. Escartin, S. Escoffier, I. Ferrero, F. Finelli, J. Garcia-Bellido, K. George, F. Giacomini, G. Gozaliasl, H. Hildebrandt, J. J. E. Kajava, V. Kansal, C. C. Kirkpatrick, L. Legrand, A. Loureiro, J. Macias-Perez, M. Magliocchetti, G. Mainetti, R. Maoli, M. Martinelli, N. Martinet, C. J. A. P. Martins, S. Matthew, L. Maurin, R. B. Metcalf, P. Monaco, G. Morgante, S. Nadathur, A. A. Nucita, L. Patrizii, A. Peel, J. Pollack, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, M. Pontinen, P. Reimberg, A.G. Sanchez, Z. Sakr, A. Schneider, E. Sefusatti, M. Sereno, A. Shulevski, A. Spurio Mancini, J. Steinwagner, R. Teyssier, M. Viel, I. A. Zinchenko, *Euclid preparation: XXVIII. Modelling of the weak lensing angular power spectrum,* **arXiv.2302.04507**, Feb 2023

Aurelio Amerio, Alessandro Cuoco, Nicolao Fornengo, *Extracting the gamma-ray source-count distribution below the Fermi-LAT detection limit with deep learning*, **arXiv:2302.01947**, Feb 2023

Luca Orusa, Mattia Di Mauro, Fiorenza Donato, Michael Korsmeier, *New determination of the production cross section for γ rays in the Galaxy*, **Phys.Rev.D** 107 (2023) 8, 083031, Feb 2023

Euclid Collaboration: C. Giocoli (1 and 2), M. Meneghetti (1 and 2), E. Rasia (3 and 4), S. Borgani (3 and 5 and 6 and 4), G. Despali (7), G. F. Lesci (8 and 1), F. Marulli (8 and 1 and 2), L. Moscardini (8 and 1 and 2), M. Sereno (1 and 2), W. Cui (9 and 10 and 11), A. Knebe (9 and 10 and 12), G. Yepes (9 and 10), T. Castro (3 and 6 and 4), P.-S. Corasaniti (13), S. Pires (14), G. Castignani (8 and 1), L. Ingoglia (8), T. Schrabback (15 and 16), G. W. Pratt (17), A. M. C. Le Brun (13), N. Aghanim (18), L. Amendola (19), N. Auricchio (1), M. Baldi (8 and 1 and 2), C. Bodendorf (20), D. Bonino (21), E. Branchini (22 and 23), M. Brescia (24), J. Brinchmann (25), S. Camera (26 and 27 and 21), V. Capobianco (21), C. Carbone (28), J. Carretero (29 and 30), F. J. Castander (31 and 32), M. Castellano (33), S. Cavuoti (34 and 35), R. Cledassou (36 and 37), G. Congedo (11), C. J. Conselice (38), L. Conversi (39 and 40), Y. Copin (41), L. Corcione (21), F. Courbin (42), M. Cropper (43), A. Da Silva (44 and 45), H. Degaudenzi (46), J. Dinis (45 and 44), F. Dubath (46), X. Dupac (39), S. Dusini (47), S. Farrens (48), S. Ferriol (41), P. Fosalba (32 and 31), M. Frailis (3), E. Franceschi (1), M. Fumana (28), S. Galeotta (3), B. Garilli (28), B. Gillis (11), A. Grazian (49), F. Grupp (20 and 50), S. V. H. Haugan (51), W. Holmes (52), A. Hornstrup (53 and 54), K. Jahnke (55), M. Kümmel (50), S. Kermiche (56), M. Kilbinger (48), M. Kunz (57), H. Kurki-Suonio (58 and 59), S. Ligori (21), P. B. Lilje (51), I. Lloro (60), E. Maiorano (1), O. Mansutti (3), O. Marggraf (16), K. Markovic (52), R. Massey (61), S. Maurogordato (62), S. Mei (63), E. Merlin (33), G. Meylan (42), M. Moresco (8 and 1), E. Munari (3), S.-M. Niemi (64), J. Nightingale (61), T. Nutma (65 and 66), C. Padilla (29), S. Paltani (46), F. Pasian (3), K. Pedersen (67), V. Pettorino (48), G. Polenta (68), M. Poncet (36), L. A. Popa (69), F. Raison (20), A. Renzi (70 and 47), J. Rhodes (52), G. Riccio (34), E. Romelli (3), M. Roncarelli (1), E. Rossetti (71), R. Saglia (50 and 20), D. Sapone (72), B. Sartoris (50 and 3), P. Schneider (16), A. Secroun (56), S. Serrano (32 and 73), C. Sirignano (70 and 47), G. Sirri (2), L. Stanco (47), J.-L. Starck (14), P. Tallada-Crespí (74 and 30), A. N. Taylor (11), I. Tereno (44 and 75), R. Toledo-Moreo (76), F. Torradeflot (74 and 30), I. Tutusaus (77), E. A. Valentijn (66), L. Valenziano (1 and 2), T. Vassallo (3), Y. Wang (78), J. Weller (50 and 20), G. Zamorani (1), J. Zoubian (56), S. Andreon (79), S. Bardelli (1), A. Boucaud (63), E. Bozzo (46), C. Colodro-Conde (80), D. Di Ferdinando (2), G. Fabbian (81 and 82), M. Farina (83), H. Israel (84), E. Keihänen (85), V. Lindholm (58 and 59), N. Mauri (86 and 2), C. Neissner (29), M. Schirmer (55), V. Scottez (87 and 88), M. Tenti (89), E. Zucca (1), Y. Akrami (90 and 91 and 92 and 93 and 94), C. Baccigalupi (95 and 4 and 3 and 6), M. Ballardini (96 and 97 and 1), F. Bernardeau (98 and 99), A. Biviano (3 and 4), A. S. Borlaff (100), C. Burigana (96 and 101 and 89), R. Cabanac (77), A. Cappi (1 and 62), C. S. Carvalho (75), S. Casas (102), K. C. Chambers (103), A. R. Cooray (104), H. M. Courtois (105), S. Davini (106), S. de la Torre (107), G. De Lucia (3), G. Desprez (46 and 108), H. Dole (18), J. A. Escartin (20), S. Escoffier (56), I. Ferrero (51), F. Finelli (1 and 89), L. Gabarra (70 and 47), K. Ganga (63), J. Garcia-Bellido (90), K. George (109), F. Giacomini (2), G. Gozaliasl (58), H. Hildebrandt (110), I. Hook (111), A. JIMENEZ MU\{N}OZ (112), B. Joachimi (113), J. J. E. Kajava (114), V. Kansal (14), C. C. Kirkpatrick (85), L. Legrand (57), A. Loureiro (11 and 94), J. Macias-Perez (112), M. Magliocchetti (83), G. Mainetti (115), R. Maoli (116 and 33), S. Marcin (117), M. Martinelli (33 and 118), N. Martinet (107), C. J. A. P. Martins (119 and 25), S. Matthew (11), L. Maurin (18), R. B. Metcalf (8 and 1), P. Monaco (5 and 3 and 6 and 4), G. Morgante (1), S. Nadathur (120), A. A. Nucita (121 and 122 and 123), L. Patrizii (2), A. Peel (42), J. Pollack (124 and 63), V. Popa (69), C. Porciani (16), D. Potter (125), M. Pöntinen (58), P. Reimberg (87), A. G. Sánchez (20), Z. Sakr (77 and 19 and 126), A. Schneider (125), E. Sefusatti (3 and 6 and 4), A. Shulevski (65 and 66), A. Spurio Mancini (43), J. Stadel (125), J. Steinwagner (20), J. Valiviita (58 and 59), A. Veropalumbo (127), M. Viel (95 and 4 and 3 and 6), I. A. Zinchenko, *Euclid preparation. XXX. Evaluating the weak lensing cluster mass biases using the Three Hundred Project hydrodynamical simulations***, arXiv.2302.00687**, Feb 2023

IXPE Collaboration, Silvia Zane, Roberto Taverna, Denis Gonzalez Caniulef, Fabio Muleri, Roberto Turolla, Jeremy Heyl, Keisuke Uchiyama, Mason Ng, Toru Tamagawa, Ilaria Caiazzo, Niccolo' Di Lalla,

Herman L. Marshall, Matteo Bachetti, Fabio La Monaca, Ephraim Gau, Alessandro Di Marco, Luca Baldini, Michela Negro, Nicola Omodei, John Rankin, Giorgio Matt, George G. Pavlov, Takao Kitaguchi, Henric Krawczynski, Fabian Kislat, Ruth Kelly, Ivan Agudo, Lucio A. Antonelli, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolo' Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Chieng Ting Chen, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Immacolata Donnarumma, Victor Doroshenko, Michal Dovciak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Philip Kaaret, Vladimir Karas, Jeffery J. Kolodziejczak, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frederic Marin, Andrea Marinucci, Alan P. Marscher, Francesco Massaro, Ikuyuki Mitsuishi, Tsunefumi Mizuno, C.Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, Abel L. Peirson, Matteo Perri, Melissa Pesce Rollins, Pierre Olivier Petrucci, Maura Pilia, Andrea Possenti, Juri Poutanen, Simonetta Puccetti, Brian D. Ramsey, Ajay Ratheesh, Oliver J. Roberts, Roger W. Romani, Carmelo Sgro', Patrick Slane, Paolo Soffitta, Gloria Spandre, Douglas A. Swartz, Fabrizio Tavecchio, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey S. Tsygankov, Jacco Vink, Martin C. Weisskopf , Kinwah Wu, Fei Xie, *A strong X-ray polarization signal from the magnetar 1RXS J170849.0-400910*, **Astrophys.J.Lett**. 944 (2023) 2, L27, Jan 2023

Euclid Collaboration: V. Ajani (1 and 2), M. Baldi (3 and 4 and 5), A. Barthelemy (6), A. Boyle (7), P. Burger (8), V. F. Cardone (9 and 10), S. Cheng (11), S. Codis (7), C. Giocoli (4 and 5), J. Harnois-Déraps (12), S. Heydenreich (8), V. Kansal (7), M. Kilbinger (1), L. Linke (8), C. Llinares (13 and 14), N. Martinet (15), C. Parroni (10), A. Peel (16), S. Pires (7), L. Porth (8), I. Tereno (13 and 14), C. Uhlemann (12), M. Vicinanza (10), S. Vinciguerra (17), N. Aghanim (18), N. Auricchio (4), D. Bonino (19), E. Branchini (20 and 21), M. Brescia (22), J. Brinchmann (23), S. Camera (24 and 25 and 19), V. Capobianco (19), C. Carbone (26), J. Carretero (27 and 28), F. J. Castander (29 and 30), M. Castellano (10), S. Cavuoti (31 and 32), A. Cimatti (33), R. Cledassou (34 and 35), G. Congedo (36), C. J. Conselice (37), L. Conversi (38 and 39), L. Corcione (19), F. Courbin (16), M. Cropper (40), A. Da Silva (13 and 41), H. Degaudenzi (42), A. M. Di Giorgio (43), J. Dinis (41 and 13), M. Douspis (18), F. Dubath (42), X. Dupac (38), S. Farrens (1), S. Ferriol (44), P. Fosalba (30 and 29), M. Frailis (45), E. Franceschi (4), S. Galeotta (45), B. Garilli (26), B. Gillis (36), A. Grazian (46), F. Grupp (47 and 48), H. Hoekstra (49), W. Holmes (50), A. Hornstrup (51 and 52), P. Hudelot (53), K. Jahnke (54), M. Jhabvala (55), M. Kümmel (48), T. Kitching (40), M. Kunz (56), H. Kurki-Suonio (57 and 58), P. B. Lilje (59), I. Lloro (60), E. Maiorano (4), O. Mansutti (45), O. Marggraf (8), K. Markovic (50), F. Marulli (3 and 4 and 5), R. Massey (61), S. Mei (62), Y. Mellier (63 and 53), M. Meneghetti (4 and 5), M. Moresco (3 and 4), L. Moscardini (3 and 4 and 5), S.-M. Niemi (64), J. Nightingale (61), T. Nutma (49 and 65), C. Padilla (27), S. Paltani (42), K. Pedersen (66), V. Pettorino (1), G. Polenta (67), M. Poncet (34), L. A. Popa (68), F. Raison (47), A. Renzi (69 and 70), J. Rhodes (50), G. Riccio (31), E. Romelli (45), M. Roncarelli (4), E. Rossetti (71), R. Saglia (48 and 47), D. Sapone (72), B. Sartoris (48 and 45), P. Schneider (8), T. Schrabback (73 and 8), A. Secroun (74), G. Seidel (54), S. Serrano (30 and 75), C. Sirignano (69 and 70), L. Stanco (70), J.-L. Starck (7), P. Tallada-Crespí (76 and 28), A. N. Taylor (36), R. Toledo-Moreo (77), F. Torradeflot (76 and 28), I. Tutusaus (78), E. A. Valentijn (65), L. Valenziano (4 and 5), T. Vassallo (45), Y. Wang (79), J. Weller (48 and 47), G. Zamorani (4), J. Zoubian (74), S. Andreon (80), S. Bardelli (4), A. Boucaud (62), E. Bozzo (42), C. Colodro-Conde (81), D. Di Ferdinando (5), G. Fabbian (82 and 83), M. Farina (43), J. Graciá-Carpio (47), E. Keihänen (84), V. Lindholm (57 and 58), D. Maino (85 and 26 and 86), N. Mauri (33 and 5), C. Neissner (27), M. Schirmer (54), V. Scottez (53 and 87), E. Zucca (4), Y. Akrami (88 and 89 and 90 and 91 and 92), C. Baccigalupi (93 and 94 and 45 and 95), A. Balaguera-Antolínez (81 and 96), M. Ballardini (97 and 98 and 4), F. Bernardeau (99 and 63), A.

Biviano (45 and 94), A. Blanchard (78), S. Borgani (45 and 100 and 95 and 94), A. S. Borlaff (101), C. Burigana (97 and 102 and 103), R. Cabanac (78), A. Cappi (4 and 104), C. S. Carvalho (14), S. Casas (105), G. Castignani (3 and 4), T. Castro (45 and 95 and 94), K. C. Chambers (106), A. R. Cooray (107), J. Coupon (42), H. M. Courtois (108), S. Davini (109), S. de la Torre (15), G. De Lucia (45), G. Desprez (42 and 110), H. Dole (18), J. A. Escartin (47), S. Escoffier (74), I. Ferrero (59), F. Finelli (4 and 103), K. Ganga (62), J. Garcia-Bellido (88), K. George (6), F. Giacomini (5), G. Gozaliasl (57), H. Hildebrandt (111), A. JIMENEZ MU\{N}OZ (112), B. Joachimi (113), J. J. E. Kajava (114), C. C. Kirkpatrick (84), L. Legrand (56), A. Loureiro (36 and 92), M. Magliocchetti (43), R. Maoli (17 and 10), S. Marcin (115), M. Martinelli (10 and 9), C. J. A. P. Martins (116 and 23), S. Matthew (36), L. Maurin (18), R. B. Metcalf (3 and 4), P. Monaco (100 and 45 and 95 and 94), G. Morgante (4), S. Nadathur (117), A. A. Nucita (118 and 119 and 120), V. Popa (68), D. Potter (121), A. Pourtsidou (36 and 122), M. Pöntinen (57), P. Reimberg (53), A. G. Sánchez (47), Z. Sakr (123 and 124 and 78), A. Schneider (121), E. Sefusatti (45 and 95 and 94), M. Sereno (4 and 5), A. Shulevski (49 and 65), A. Spurio Mancini (40), J. Steinwagner (47), R. Teyssier (125), J. Valiviita (57 and 58), A. Veropalumbo (85), M. Viel (93 and 94 and 45 and 95), I. A. Zinchenko*, Euclid Preparation XXIX: Forecasts for 10 different higher-order weak lensing statistics*, **arXiv.2301.12890**, Jan 2023

Stefano Camera, Salvatore Capozziello, Lorenzo Fatibene, Andrea Orizzonte*, The effective equation of state in Palatini f(R) cosmology*, **Eur.Phys.J.Plus** 138 (2023) 2, 180, Jan 2023

J. Singal, N. Fornengo, M. Regis, G. Bernardi, D. Bordenave, E. Branchini, N. Cappelluti, A. Caputo, I.P. Carucci, J. Chluba, A. Cuoco, C. DiLullo, A. Fialkov, C. Hale, S.E. Harper, S. Heston, G. Holder, A. Kogut, M.G.H. Krause, J.P. Leahy, S. Mittal, R.A. Monsalve, G. Piccirilli, E. Pinetti, S. Recchia, M. Taoso, E. Todarello, *The Second Radio Synchrotron Background Workshop: Conference Summary and Report*, **Publ.Astron.Soc.Pac**. 135 (2023) 1045, 036001, Nov 2022

Federico Compagnin, Stefano Profumo, Nicolao Fornengo, *MeV Dark Matter with MeV Dark Photons in Abelian Kinetic Mixing Theories*, **JCAP** 03 (2023) 061, Nov 2022

IXPE Collaboration, Riccardo Middei, Ioannis Liodakis, Matteo Perri, Simonetta Puccetti, Elisabetta Cavazzuti, Laura Di Gesu, Steven R. Ehlert, Grzegorz Madejski, Alan P. Marscher, Herman L. Marshall, Fabio Muleri, Michela Negro, Svetlana G. Jorstad, Beatriz Agís-González, Iván Agudo, Giacomo Bonnoli, Maria I. Bernardos, Víctor Casanova, Maya García-Comas, César Husillos, Alessandro Marchini, Alfredo Sota, Pouya M. Kouch, George A. Borman, Evgenia N. Kopatskaya, Elena G. Larionova, Daria A. Morozova, Sergey S. Savchenko, Andrey A. Vasilyev, Alexey V. Zhovtan, Carolina Casadio, Juan Escudero, Ioannis Myserlis, Antonio Hales, Seiji Kameno, Ruediger Kneissl, Hugo Messias, Hiroshi Nagai, Dmitry Blinov, Ioakeim G. Bourbah, Sebastian Kiehlmann, Evangelos Kontopodis, Nikos Mandarakas, Stylianos Romanopoulos, Raphael Skalidis, Anna Vervelaki, Joseph R. Masiero, Dimitri Mawet, Maxwell A. Millar-Blanchaer, Georgia V. Panopoulou, Samaporn Tinyanont, Andrei V. Berdyugin, Masato Kagitani, Vadim Kravtsov, Takeshi Sakanoi, Ryo Imazawa, Mahito Sasada, Yasushi Fukazawa, Koji S. Kawabata, Makoto Uemura, Tsunefumi Mizuno, Tatsuya Nakaoka, Hiroshi Akitaya, Mark Gurwell, Ramprasad Rao, Niccoló Di Lalla, Nicoló Cibrario, Immacolata Donnarumma, Dawoon E. Kim, Nicola Omodei, Luigi Pacciani, Juri Poutanen, Fabrizio Tavecchio, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccoló Bucciantini, Fiamma Capitanio, Simone Castellano, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Alessandro Di Marco, Victor Doroshenko, Michal Dovčiak, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi

Hayashida, Jeremy Heyl , Wataru Iwakiri, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, C.-Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Maura Pilia, Andrea Possenti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Roger W. Romani, Carmelo Sgró, Patrick Slane, Paolo Soffitta, Gloria Spandre, Toru Tamagawa, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Fei Xie, Silvia Zane*, X-ray Polarization Observations of BL Lacertae*, **Astrophys.J.Lett**. 942 (2023) 1, L10, Nov 2022

Euclid Collaboration: A. Fumagalli (1 and 2 and 3 and 4), A. Saro (1 and 2 and 3 and 4), S. Borgani (1 and 3 and 2 and 4), T. Castro (3 and 2 and 4), M. Costanzi (1 and 3 and 2), P. Monaco (1 and 2 and 4 and 3), E. Munari (2), E. Sefusatti (2 and 4 and 3), N. Aghanim (5), N. Auricchio (6), M. Baldi (7 and 6 and 8), C. Bodendorf (9), D. Bonino (10), E. Branchini (11 and 12), M. Brescia (13 and 14), J. Brinchmann (15), S. Camera (16 and 17 and 10), V. Capobianco (10), C. Carbone (18), J. Carretero (19 and 20), F. J. Castander (21 and 22), M. Castellano (23), S. Cavuoti (14 and 24), R. Cledassou (25 and 26), G. Congedo (27), C. J. Conselice (28), L. Conversi (29 and 30), Y. Copin (31), L. Corcione (10), F. Courbin (32), M. Cropper (33), A. Da Silva (34 and 35), H. Degaudenzi (36), F. Dubath (36), X. Dupac (29), S. Dusini (37), S. Farrens (38), S. Ferriol (31), M. Frailis (2), E. Franceschi (6), P. Franzetti (18), S. Galeotta (2), B. Garilli (18), W. Gillard (39), B. Gillis (27), C. Giocoli (6 and 40), A. Grazian (41), F. Grupp (9 and 42), S. V. H. Haugan (43), W. Holmes (44), A. Hornstrup (45 and 46), P. Hudelot (47), K. Jahnke (48), M. Kümmel (42), S. Kermiche (39), A. Kiessling (44), M. Kilbinger (38), T. Kitching (33), M. Kunz (49), H. Kurki-Suonio (50 and 51), S. Ligori (10), P. B. Lilje (43), I. Lloro (52), O. Mansutti (2), O. Marggraf (53), K. Markovic (44), F. Marulli (7 and 6 and 8), R. Massey (54), S. Maurogordato (55), E. Medinaceli (6), S. Mei (56), M. Meneghetti (6 and 8), G. Meylan (32), M. Moresco (7 and 6), L. Moscardini (7 and 6 and 8), S.-M. Niemi (57), C. Padilla (19), S. Paltani (36), F. Pasian (2), K. Pedersen (58), W. J. Percival (59 and 60 and 61), V. Pettorino (38), S. Pires (62), G. Polenta (63), M. Poncet (25), F. Raison (9), R. Rebolo-Lopez (64 and 65), A. Renzi (66 and 37), J. Rhodes (44), G. Riccio (14), E. Romelli (2), M. Roncarelli (6), R. Saglia (42 and 9), D. Sapone (67), B. Sartoris (42 and 2), P. Schneider (53), A. Secroun (39), G. Seidel (48), C. Sirignano (66 and 37), G. Sirri (8), L. Stanco (37), P. Tallada-Crespí (68 and 20), A. N. Taylor (27), I. Tereno (34 and 69), R. Toledo-Moreo (70), F. Torradeflot (68 and 20), I. Tutusaus (71 and 49), L. Valenziano (6 and 8), T. Vassallo (2), Y. Wang (72), J. Weller (42 and 9), A. Zacchei (2 and 3), G. Zamorani (6), J. Zoubian (39), S. Andreon (73), S. Bardelli (6), A. Boucaud (56), E. Bozzo (36), C. Colodro-Conde (64), D. Di Ferdinando (8), G. Fabbian (74 and 75), M. Farina (76), V. Lindholm (50 and 51), D. Maino (77 and 18 and 78), N. Mauri (79 and 8), C. Neissner (19), V. Scottez (47 and 80), E. Zucca (6), C. Baccigalupi (81 and 3 and 2 and 4), A. Balaguera-Antolínez (64 and 65), M. Ballardini (82 and 83 and 6), F. Bernardeau (84 and 85), A. Biviano (2 and 3), A. Blanchard (71), A. S Borlaff (86), C. Burigana (82 and 87 and 88), R. Cabanac (71), C. S. Carvalho (69), S. Casas (89), G. Castignani (7 and 6), K. Chambers (90), A. R. Cooray (91), J. Coupon (36), H. M. Courtois (92), S. Davini (93), S. de la Torre (94), G. Desprez (36 and 95), H. Dole (5), J. A. Escartin (9), S. Escoffier (39), P. G. Ferreira (96), F. Finelli (6 and 88), J. Garcia-Bellido (97), K. George (98), G. Gozaliasl (50), H. Hildebrandt (99), I. Hook (100), A. Jimenez Muňoz (101), B. Joachimi (102), V. Kansal (62), E. Keihänen (103), C. C. Kirkpatrick (103), A. Loureiro (27 and 102 and 104), M. Magliocchetti (76), R. Maoli (105 and 23), S. Marcin (106), M. Martinelli (23), N. Martinet (94), S. Matthew (27), M. Maturi (107 and 108), L. Maurin (5), R. B. Metcalf (7 and 6), G. Morgante (6), S. Nadathur (109), A. A. Nucita (110 and 111 and 112), L. Patrizii (8), J. E. Pollack (56), V. Popa (113), C. Porciani (53), D. Potter (114), A. Pourtsidou (27 and 115), M. Pöntinen (50), A. G. Sánchez (9), Z. Sakr

(71 and 107 and 116), M. Schirmer (48), M. Sereno (6 and 8), A. Spurio Mancini (33), J. Stadel (114), J. Steinwagner (9), C. Valieri (8), J. Valiviita (51 and 50), A. Veropalumbo (77), M. Viel, *Euclid preparation. XXVII. Covariance model validation for the 2-point correlation function of galaxy clusters*, **arXiv.2211.12965**, Nov 2022

Euclid Collaboration: J. Adamek, R. E. Angulo, C. Arnold, M. Baldi, M. Biagetti, B. Bose, C. Carbone, T. Castro, J. Dakin, K. Dolag, W. Elbers, C. Fidler, C. Giocoli, S. Hannestad, F. Hassani, C. Hernández-Aguayo, K. Koyama, B. Li, R. Mauland, P. Monaco, C. Moretti, D. F. Mota, C. Partmann, G. Parimbelli, D. Potter, A. Schneider, S. Schulz, R. E. Smith, V. Springel, J. Stadel, T. Tram, M. Viel, F. Villaescusa-Navarro, H. A. Winther, B. S. Wright, M. Zennaro, N. Aghanim, L. Amendola, N. Auricchio, D. Bonino, E. Branchini, M. Brescia, S. Camera, V. Capobianco, V. F. Cardone, J. Carretero, F. J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C. A. J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, A. Grazian, S. V. Haugan, W. Holmes, A. Hornstrup, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kunz, H. Kurki-Suonio, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, F. Marulli, R. Massey, E. Medinaceli, M. Meneghetti, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.-M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W. J. Percival, V. Pettorino , G. Polenta, M. Poncet, L. A. Popa, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, T. Schrabback, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, P. Tallada-Crespí, A. N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, J. Zoubian, G. Fabbian, V. Scottez, *Euclid: Modelling massive neutrinos in cosmology -- a code comparison***, arXiv.2211.12457**, Nov 2022

E. J. Marchesini, V. Reynaldi, F. Vieyro, J. Saponara, I. Andruchow, I. E. López, P. Benaglia, S. A. Cellone, N. Masetti, F. Massaro, H. A. Peña-Herazo, V. Chavushyan, J. A. Combi, J. A. Acosta-Pulido, B. Agís González, N. Castro-Segura*, Disentangling the nature of the prototype radio weak BL Lac: Contemporaneous multifrequency observations of WISE J141046.00 + 740511.2***, Astron.Astrophys.** 670 (2023) A91, Nov 2022

A. Jimenez-Gallardo, E. Sani, F. Ricci, C. Mazzucchelli, B. Balmaverde, F. Massaro, A. Capetti, W. R. Forman, R. P. Kraft, G. Venturi, M. Gendron-Marsolais, M. A. Prieto, A. Marconi, H. A. Peña-Herazo, S. A. Baum, C. P. O'Dea, L. Lovisari, R. Gilli, E. Torresi, A. Paggi, V. Missaglia, G. R. Tremblay, B. J. Wilkes, *The cavity of 3CR 196.1: Hα emission spatially associated with an X-ray cavity*, **Astrophys.J.** 941 (2022) 2, 114, Nov 2022

Andrea Caputo, Michela Negro, Marco Regis, Marco Taoso, *Dark Matter prospects with COSI: ALPs, PBHs and sub-GeV Dark Matter*, **JCAP** 02 (2023) 006, Oct 2022

Santiago Casas, Isabella P. Carucci, Valeria Pettorino, Stefano Camera, Matteo Martinelli, *Constraining gravity with synergies between radio and optical cosmological surveys*, **Phys.Dark Univ.** 39 (2023) 101151, Oct 2022

Ivan de Martino, Antonaldo Diaferio, Luisa Ostorero, *Dynamics of dwarf galaxies in f(R) gravity* **Mon.Not.Roy.Astron.Soc**. 519 (2023) 3, 4424-4433, Oct 2022

Euclid Collaboration: E. Merlin, M. Castellano, H. Bretonnière, M. Huertas-Company, U. Kuchner, D. Tuccillo, F. Buitrago, J. R. Peterson, C.J. Conselice, F. Caro, P. Dimauro, L. Nemani, A. Fontana, M. Kümmel, B. Häußler, W. G. Hartley, A. Alvarez Ayllon, E. Bertin, P. Dubath, F. Ferrari, L. Ferreira, R. Gavazzi, D. Hernández-Lang, G. Lucatelli, A. S. G. Robotham, M. Schefer, C. Tortora, N. Aghanim, A. Amara, L. Amendola, N. Auricchio, M. Baldi, R. Bender, C. Bodendorf, E. Branchini, M. Brescia, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F. J. Castander, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, J. Dinis, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, M. Frailis, E. Franceschi, P. Franzetti, S. Galeotta, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, T. Kitching, R. Kohley, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J McCracken, E. Medinaceli, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi , C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, J. Skottfelt, J.-L. Starck, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, I. Tutusaus, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, A. Boucaud, C. Colodro-Conde, D. Di Ferdinando, J. Graciá-Carpio, V. Lindholm, N. Mauri, S. Mei, C. Neissner, V. Scottez, A. Tramacere, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, F. Bernardeau, A. Biviano, S. Borgani, A.S. Borlaff, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A.R. Cooray, J. Coupon, H.M. Courtois, O. Cucciati, S. Davini, G. De Lucia, G. Desprez, J.A. Escartin, S. Escoffier, M. Farina, K. Ganga, J. Garcia-Bellido, K. George, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, S. Ilic, B. Joachimi, V. Kansal, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macias-Perez, M. Magliocchetti, G. Mainetti, R. Maoli, S. Marcin, M. Martinelli, N. Martinet, S. Matthew, M. Maturi, R.B. Metcalf, P. Monaco, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, M. Pöntinen, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, S.E. van Mierlo, A. Veropalumbo, M. Viel, J. R. Weaver, D. Scott*, Euclid preparation. XXV*. *The Euclid Morphology Challenge -- Towards model-fitting photometry for billions of galaxies*, **Astron.Astrophys.** 671 (2023) A101, Sept 2022

Euclid Collaboration: E. Merlin, M. Castellano, H. Bretonnière, M. Huertas-Company, U. Kuchner, D. Tuccillo, F. Buitrago, J. R. Peterson, C.J. Conselice, F. Caro, P. Dimauro, L. Nemani, A. Fontana, M. Kümmel, B. Häußler, W. G. Hartley, A. Alvarez Ayllon, E. Bertin, P. Dubath, F. Ferrari, L. Ferreira, R. Gavazzi, D. Hernández-Lang, G. Lucatelli, A. S. G. Robotham, M. Schefer, C. Tortora, N. Aghanim, A. Amara, L. Amendola, N. Auricchio, M. Baldi, R. Bender, C. Bodendorf, E. Branchini, M. Brescia, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F. J. Castander, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, J. Dinis, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, M. Frailis, E. Franceschi, P. Franzetti, S. Galeotta, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, T. Kitching, R. Kohley, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J McCracken, E. Medinaceli, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi , C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, J. Skottfelt, J.-L. Starck, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, I. Tutusaus, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, J.

Zoubian, S. Andreon, S. Bardelli, A. Boucaud, C. Colodro-Conde, D. Di Ferdinando, J. Graciá-Carpio, V. Lindholm, N. Mauri, S. Mei, C. Neissner, V. Scottez, A. Tramacere, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, F. Bernardeau, A. Biviano, S. Borgani, A.S. Borlaff, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A.R. Cooray, J. Coupon, H.M. Courtois, O. Cucciati, S. Davini, G. De Lucia, G. Desprez, J.A. Escartin, S. Escoffier, M. Farina, K. Ganga, J. Garcia-Bellido, K. George, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, S. Ilic, B. Joachimi, V. Kansal, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macias-Perez, M. Magliocchetti, G. Mainetti, R. Maoli, S. Marcin, M. Martinelli, N. Martinet, S. Matthew, M. Maturi, R.B. Metcalf, P. Monaco, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, M. Pöntinen, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, S.E. van Mierlo, A. Veropalumbo, M. Viel, J. R. Weaver, D. Scott,. *Euclid preparation - XXVI. The Euclid Morphology Challenge: Towards structural parameters for billions of galaxies*, **Astron.Astrophys.** 671 (2023) A102, Sept 2022

Euclid Collaboration: E. Merlin, M. Castellano, H. Bretonnière, M. Huertas-Company, U. Kuchner, D. Tuccillo, F. Buitrago, J. R. Peterson, C.J. Conselice, F. Caro, P. Dimauro, L. Nemani, A. Fontana, M. Kümmel, B. Häußler, W. G. Hartley, A. Alvarez Ayllon, E. Bertin, P. Dubath, F. Ferrari, L. Ferreira, R. Gavazzi, D. Hernández-Lang, G. Lucatelli, A. S. G. Robotham, M. Schefer, C. Tortora, N. Aghanim, A. Amara, L. Amendola, N. Auricchio, M. Baldi, R. Bender, C. Bodendorf, E. Branchini, M. Brescia, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F. J. Castander, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, J. Dinis, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, M. Frailis, E. Franceschi, P. Franzetti, S. Galeotta, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, T. Kitching, R. Kohley, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J McCracken, E. Medinaceli, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi , C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, J. Skottfelt, J.-L. Starck, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, I. Tutusaus, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, A. Boucaud, C. Colodro-Conde, D. Di Ferdinando, J. Graciá-Carpio, V. Lindholm, N. Mauri, S. Mei, C. Neissner, V. Scottez, A. Tramacere, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, F. Bernardeau, A. Biviano, S. Borgani, A.S. Borlaff, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A.R. Cooray, J. Coupon, H.M. Courtois, O. Cucciati, S. Davini, G. De Lucia, G. Desprez, J.A. Escartin, S. Escoffier, M. Farina, K. Ganga, J. Garcia-Bellido, K. George, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, S. Ilic, B. Joachimi, V. Kansal, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macias-Perez, M. Magliocchetti, G. Mainetti, R. Maoli, S. Marcin, M. Martinelli, N. Martinet, S. Matthew, M. Maturi, R.B. Metcalf, P. Monaco, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, M. Pöntinen, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, S.E. van Mierlo, A. Veropalumbo, M. Viel, J. R. Weaver, D. Scott,. *Euclid preparation - XXII. Selection of quiescent galaxies from mock photometry using machine learning*, **Astron.Astrophys.** 671 (2023) A99, Sept 2022

Euclid Collaboration: L. Cabayol, M. Eriksen, J. Carretero, R. Casas, F.J. Castander, E. Fernández, J. Garcia-Bellido, E. Gaztanaga, H. Hildebrandt, H. Hoekstra, B. Joachimi, R. Miquel, C.Padilla, A. Pocino, E. Sanchez, S. Serrano, I. Sevilla, M. Siudek, P. Tallada-Crespí, N. Aghanim, A. Amara, N.

Auricchio, M. Baldi, R. Bender, D. Bonino, E.Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, P. Fosalba, M. Frailis, E. Franceschi, P. Franzetti, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, A. Hornstrup, P. Hudelot, K. Jahnke, M. Kümme, S. Kermiche, A. Kiessling, M. Kilbinger, R. Kohley, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, R. Nakajima, S.M. Niemi, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, J. Rhodes , G. Riccio, C. Rosset, E. Rossetti, R. Saglia, B. Sartoris, P. Schneider, A. Secroun, G. Seide, C. Sirignano, G. Sirri, L. Stanco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E. Valentijn, L. Valenziano, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, S. Mei, V. Scottez, A. Tramacere, *The PAU Survey & Euclid: Improving broad-band photometric redshifts with multi-task learning***, Astron.Astrophys**. 671 (2023) A153, Sept 2022

IXPE Collaboration, Laura Di Gesu, Immacolata Donnarumma, Fabrizio Tavecchio, Ivan Agudo, Thibault Barnounin, Nicolò Cibrario, Niccolò Di Lalla, Alessandro Di Marco, Juan Escudero, Manel Errando, Svetlana G. Jorstad, Dawoon Kim, Pouya M. Kouch, Elina Lindfors, Ioannis Liodakis, Grzegorz Madejski, Herman L. Marshall, Alan P. Marscher, Riccardo Middei, Fabio Muleri, Ioannis Myserlis, Michela Negro, Nicola Omodei, Luigi Pacciani, Alessandro Paggi, Matteo Perri, Simonetta Puccetti, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Victor Doroshenko, Michal Dovčiak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, C.-Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Maura Pilia, Andrea Possenti, Juri Poutanen, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Paolo Soffitta, Gloria Spandre, Toru Tamagawa, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicolas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf , Kinwah Wu, Fei Xie, Silvia Zane, *The X-ray Polarization View of Mrk~421 in an Average Flux State as Observed by the Imaging X-ray Polarimetry Explorer*, **Astrophys.J.Lett**. 938 (2022) 1, L7, Sept 2022

IXPE Collaboration, Ioannis Liodakis, Alan P. Marscher, Iván Agudo, Andrei V. Berdyugin, Maria I. Bernardos, Giacomo Bonnoli, George A. Borman, Carolina Casadio, Víctor Casanova, Elisabetta Cavazzuti, Nicole R. Cavero, Laura Di Gesu, Niccoló Di Lalla, Immacolata Donnarumma, Steven R. Ehlert, Manel Errando, Juan Escudero, Maya García-Comas, Beatriz Agís-González, César Husillos, Jenni Jormanainen, Svetlana G. Jorstad, Masato Kagitani, Evgenia N. Kopatskaya, Vadim Kravtsov, Henric Krawczynski, Elina Lindfors, Elena G. Larionova, Grzegorz M. Madejski, Frédéric Marin, Alessandro Marchini, Herman L. Marshall, Daria A. Morozova, Francesco Massaro, Joseph R. Masiero, Dimitri Mawet, Riccardo Middei, Maxwell A. Millar-Blanchaer, Ioannis Myserlis, Michela Negro, Kari Nilsson, Stephen L. O'Dell, Nicola Omodei, Luigi Pacciani, Alessandro Paggi, Georgia V. Panopoulou, Abel L. Peirson, Matteo Perri, Pierre-Olivier Petrucci, Juri Poutanen, Simonetta

Puccetti, Roger W. Romani, Takeshi Sakanoi, Sergey S. Savchenko, Alfredo Sota, Fabrizio Tavecchio, Samaporn Tinyanont, Andrey A. Vasiliev, Zachary R. Weaver, Alexey V. Zhovtan, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccoló Bucciantini, Fiamma Capitanio, Simone Castellano, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Alessandro Di Marco, Victor Doroshenko, Michal Dovčiak, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Riccardo Ferrazzoli, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Fabio La Monaca, Luca Latronico, Simone Maldera, Alberto Manfreda, Andrea Marinucci, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Fabio Muleri , Stephen C.-Y. Ng, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Carmelo Sgró, Patrick Slane, Paolo Soffitta, Gloria Spandre, Toru Tamagawa, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicolas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Fei Xie, Silvia Zane, *Polarized Blazar X-rays imply particle acceleration in shocks*, **Nature** 611 (2022) 7937, 677-681, Sept 2022

Matej Kosiba, Harold Andres Peña-Herazo, Francesco Massaro, Nicola Masetti, Alessandro Paggi, Vahram Chavushyan, Eugenio Bottacini, Norbert Werner, *A multifrequency characterization of the extragalactic hard X-ray sky*, **Astron.Astrophys**. 670 (2023) A171, Aug 2022

Ivan de Martino, Antonaldo Diaferio, Luisa Ostorero, *The proper motion of stars in dwarf galaxies: distinguishing central density cusps from cores***, Mon.Not.Roy.Astron.Soc**. 516 (2022), Aug 2022

Euclid Collaboration: K. Naidoo, H. Johnston, B. Joachimi, J. L. van den Busch, H. Hildebrandt, O. Ilbert, O. Lahav, N. Aghanim, B. Altieri, A. Amara, M. Baldi, R. Bender, C. Bodendorf, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F. J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C. J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, J. Dinis, F. Dubath, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S. V. H. Haugan, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kümmel, A. Kiessling, M. Kilbinger, T. Kitching, R. Kohley, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, S. Maurogordato, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, R. Nakajima, S. M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W. J. Percival, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, C. Rosset, E. Rossetti , R. Saglia, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, J.-L. Starck, C. Surace, P. Tallada-Crespí, A. N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E. A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, M. Wetzstein, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, D. Maino, V. Scottez, A. H. Wright, Euclid: *Calibrating photometric redshifts with spectroscopic cross-correlations*, **Astron.Astrophys**. 670 (2023) A149, Aug 2022

Euclid Collaboration: T. Castro, A. Fumagalli, R. E. Angulo, S. Bocquet, S. Borgani, C. Carbone, J. Dakin, K. Dolag, C. Giocoli, P. Monaco, A. Ragagnin, A. Saro, E. Sefusatti, M. Costanzi, A. M. C. Le Brun, P.-S. Corasaniti, A. Amara, L. Amendola, M. Baldi, R. Bender, C. Bodendorf, E. Branchini, M. Brescia, S. Camera, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, A. Da Silva, H. Degaudenzi, M. Douspis, F.

Dubath, C.A.J. Duncan, X. Dupac, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, B. Gillis, A. Grazian, F. Grupp, S.V.H. Haugan, F. Hormuth, A. Hornstrup, P. Hudelot, K. Jahnke, S. Kermiche, T. Kitching, M. Kunz, H. Kurki-Suonio, P.B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, F. Marulli, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, G. Seidel, G. Sirri, L. Stanco, P. Tallada Crespí, A.N. Taylor, R. Toledo-Moreo, F. Torradeflot , I. Tutusaus, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, G. Zamorani, S. Andreon, S. Bardelli, E. Bozzo, C. Colodro-Conde, D. Di Ferdinando, M. Farina, J. Graciá-Carpio, V. Lindholm, C. Neissner, V. Scottez, M. Tenti, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, F. Bernardeau, A. Biviano, A. Blanchard, A. S. Borlaff, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A. Cooray, J. Coupon, H.M. Courtois, S. Davini, G. De Lucia, G. Desprez, H. Dole, J.A. Escartin, S. Escoffier, F. Finelli, K. Ganga, J. Garcia-Bellido, K. George, G. Gozaliasl, H. Hildebrandt, I. Hook, S. Ilić, V. Kansal, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macias-Perez, M. Magliocchetti, R. Maoli, S. Marcin, M. Martinelli, N. Martinet, S. Matthew, M. Maturi, R.B. Metcalf, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, A. Peel, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, M. Pöntinen, A.G. Sánchez, Z. Sakr, M. Schirmer, M. Sereno, A. Spurio Mancini, R. Teyssier, J. Valiviita, A. Veropalumbo, M. Viel*, Euclid preparation. XXIV. Calibration of the halo mass function in Λ(ν)CDM cosmologies*, **Astron.Astrophys**. 671 (2023) A100, Aug 2022

Valentina Missaglia, Matteo Murgia, Francesco Massaro, Alessandro Paggi, Ana Jimenez-Gallardo, William R. Forman, Ralph P. Kraft, Barbara Balmaverde*, High frequency radio imaging of 3CR 403.1 with the Sardinia Radio Telescope*, **Astrophys.J**. 936 (2022) 1, 10, Lug 2022

Euclid Collaboration: D. Camarena, V. Marra, Z. Sakr, S. Nesseris, A. Da Silva, J. Garcia-Bellido, P. Fleury, L. Lombriser, M. Martinelli, C. J. A. P. Martins, J. Mimoso, D. Sapone, C. Clarkson, S. Camera, C. Carbone, S. Casas, S. Ilić, V. Pettorino, I. Tutusaus, N. Aghanim, B. Altieri, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, G. P. Candini, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, H. Degaudenzi, F. Dubath, C. A. J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S. V. H. Haugan, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, A. Kiessling, R. Kohley, M. Kunz, H. Kurki-Suonio, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, F. Marulli, R. Massey, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S. M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, J. Rhodes, G. Riccio, Hans-Walter Rix, E. Rossetti, R. Saglia, B. Sartoris, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco , C. Surace, P. Tallada-Crespí, A. N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E. A. Valentijn, L. Valenziano, Y. Wang, G. Zamorani, J. Zoubian, S. Andreon, D. Di Ferdinando, V. Scottez, M. Tenti, *Euclid: Testing the Copernican principle with next-generation surveys*, **Astron.Astrophys.** 671 (2023) A68, Lug 2022

IXPE Collaboration, Steven R. Ehlert, Riccardo Ferrazzoli, Andrea Marinucci, Herman L. Marshall, Riccardo Middei, Luigi Pacciani, Matteo Perri, Pierre-Olivier Petrucci, Simonetta Puccetti, Thibault Barnouin, Stefano Bianchi, Ioannis Liodakis, Grzegorz Madejski, Fréderic Marin, Alan P. Marscher, Giorgio Matt, Juri Poutanen, Kinwah Wu, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti,

Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Niccolò Di Lalla, Alessandro Di Marco, Immacolata Donnarumma, Victor Doroshenko, Michal Dovčiak, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Simone Maldera, Alberto Manfreda, Francesco Massaro, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Fabio Muleri, Michela Negro, C.-Y. Ng, Stephen L. O'Dell, Nicola Omodei, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Roger W. Romani, Carmelo Sgrò, Patrick Slane, Paolo Soffitta, Gloria Spandre, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicholas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Fei Xie, Silvia Zane, James Rodi, Elisabeth Jourdain, Jean-Pierre Roques*, Limits on X-ray Polarization at the Core of Centaurus A as Observed with the Imaging X-ray Polarimetry Explorer*, **Astrophys.J**. 935 (2022) 2, 116, Lug 2022

IXPE Collaboration, Niccolò Bucciantini, Riccardo Ferrazzoli, Matteo Bachetti, John Rankin, Niccolò Di Lalla, Carmelo Sgrò, Nicola Omodei, Takao Kitaguchi, Tsunefumi Mizuno, Shuichi Gunji, Eri Watanabe, Luca Baldini, Patrick Slane, Martin C. Weisskopf, Roger W. Romani, Andrea Possenti, Herman L. Marshall, Stefano Silvestri, Luigi Pacciani, Michela Negro, Fabio Muleri, Emma de Oña Wilhelmi, Fei Xie, Jeremy Heyl, Melissa Pesce-Rollins, Josephine Wong, Maura Pilia, Ivan Agudo, Lucio A. Antonelli, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Alessandro Di Marco, Immacolata Donnarumma, Victor Doroshenko, Michal Dovčiak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Javier A. Garcia, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Jeffery J. Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Luca Latronico, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Alan P. Marscher, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, C.-Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Pierre-Olivier Petrucci, Juri Poutanen, Simonetta Puccetti, Brian D. Ramsey, Ajay Ratheesh, Paolo Soffitta, Gloria Spandre, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicolas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Kinwah Wu, Silvia Zane, *Simultaneous space and phase resolved X-ray polarimetry of the Crab Pulsar and Nebula*, **arXiv.2207.05573**, Lug 2022

M. Pizzardo, A. Diaferio, K. Rines, *The mass distribution in the outskirts of clusters of galaxies as a probe of the theory of gravity* **arXiv:2207.04982**, Jul 2022

Euclid Collaboration: M. Bonici, C. Carbone, S. Davini, P. Vielzeuf, L. Paganin, V. Cardone, N. Hamaus, A. Pisani, A.J. Hawken, A. Kovacs, S. Nadathur, S. Contarini, G. Verza, I. Tutusaus, F. Marulli, L. Moscardini, M. Aubert, C. Giocoli, A. Pourtsidou, S. Camera, S. Escoffier, A. Caminata, M. Martinelli, M. Pallavicini, V. Pettorino, Z. Sakr, D. Sapone, G. Testera, S. Tosi, V. Yankelevich, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, P. Gomez-Alvarez, B. Garilli, B. Gillis, A. Grazian, F. Grupp, L. Guzzo, S.V.H. Haugan, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kummel, S. Kermiche, A. Kiessling, M. Kilbinger, M. Kunz, H. Kurki-Suonio, R. Laureijs,

S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, R. Massey, E. Medinaceli, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival , S. Pires, G. Polenta, M. Poncet, L. Popa, F. Raison, R. Rebolo, A. Renzi, J. Rhodes, E. Rossetti, R. Saglia, B. Sartoris, M. Scodeggio, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, C. Surace, P. Tallada-Crespi, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, *Euclid: Forecasts from the void-lensing cross-correlation*, **Astron.Astrophys**. 670 (2023) A47, Jul 2022

Louis Perenon, Matteo Martinelli, Roy Maartens, Stefano Camera, Chris Clarkson*, Measuring dark energy with expansion and growth***, Phys.Dark Univ**. 37 (2022) 101119, Lug 2022

IXPE Collaboration, Henric Krawczynski, Fabio Muleri, Michal Dovčiak, Alexandra Veledina, Nicole Rodriguez Cavero, Jiri Svoboda, Adam Ingram, Giorgio Matt, Javier A. Garcia, Vladislav Loktev, Michela Negro, Juri Poutanen, Takao Kitaguchi, Jakub Podgorný, John Rankin, Wenda Zhang, Andrei Berdyugin, Svetlana V. Berdyugina, Stefano Bianchi, Dmitry Blinov, Fiamma Capitanio, Niccolò Di Lalla, Paul Draghis, Sergio Fabiani, Masato Kagitani, Vadim Kravtsov, Sebastian Kiehlmann, Luca Latronico, Alexander A. Lutovinov, Nikos Mandarakas, Frédéric Marin, Andrea Marinucci, Jon Miller, Tsunefumi Mizuno, Sergey V. Molkov, Nicola Omodei, Pierre-Olivier Petrucci, Ajay Ratheesh, Takeshi Sakanoi, Andrei N. Semena, Raphael Skalidis, Paolo Soffitta, Allyn F. Tennant, Phillipp Thalhammer, Francesco Tombesi, Martin C. Weisskopf, Joern Wilms, Sixuan Zhang, Iván Agudo, Lucio A. Antonelli, Matteo Bachetti, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Niccolò Bucciantini, Simone Castellano, Elisabetta Cavazzuti, Stefano Ciprini, Enrico Costa, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Alessandro Di Marco, Immacolata Donnarumma, Victor Doroshenko, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Riccardo Ferrazzoli, Shuichi Gunji, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Jeffery J. Kolodziejczak, Fabio La Monaca, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Alan P. Marscher, Herman L. Marshall, Ikuyuki Mitsuishi, C.-Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Maura Pilia, Andrea Possenti, Simonetta Puccetti, Brian D. Ramsey, Roger W. Romani, Carmelo Sgrò , Patrick Slane, Gloria Spandre, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Nicolas E. Thomas, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Jacco Vink, Kinwah Wu, Fei Xie, Silvia Zane, *Polarized x-rays constrain the disk-jet geometry in the black hole x-ray binary Cygnus X-1***, Science** 378 (2022) 6620, add5399, Lug 2022

IXPE Collaboration, Jacco Vink, Dmitry Prokhorov, Riccardo Ferrazzoli, Patrick Slane, Ping Zhou, Kazunori Asakura, Luca Baldini, Niccolo Bucciantini, Enrico Costa, Alessandro Di Marco, Jeremy Heyl, Frederic Marin, Tsunefumi Mizuno, C. Y. Ng, Melissa Pesce-Rollins, Brian D. Ramsey, John Rankin, Ajay Ratheesh, Carmelo Sgro, Paolo Soffitta, Douglas A. Swartz, Toru Tamagawa, Martin C. Weisskopf, Yi-Jung Yang, Ronaldo Bellazzini, Raffaella Bonino, Elisabetta Cavazzuti, Luigi Costamante, Niccolo Di Lalla, Luca Latronico, Simone Maldera, Alberto Manfreda, Francesco Massaro, Ikuyuki Mitsuishi, Nicola Omodei, Chiara Oppedisano, Silvia Zane, Ivan Agudo, Lucio A. Antonelli, Matteo Bachetti, Wayne H. Baumgartner, Stefano Bianchi, Stephen D. Bongiorno, Alessandro Brez, Fiamma Capitanio, Simone Castellano, Stefano Ciprini, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Immacolata Donnarumma, Victor Doroshenko, Michal Dovciak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Sergio Fabiani, Javier A. Garcia, Shuichi Gunji, Kiyoshi Hayashida, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Takao Kitaguchi, Jeffery J.

Kolodziejczak, Henric Krawczynski, Fabio La Monaca, Ioannis Liodakis, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Giorgio Matt, Fabio Muleri, Stephen L. O'Dell, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Maura Pilia, Andrea Possenti, Juri Poutanen, Simonetta Puccetti, Roger W. Romani, Gloria Spandre, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicolas E. Thomas, Francesco Tombesi, Alessio Trois, Sergey Tsygankov, Roberto Turolla, Kinwah Wu, Fei Xie, *X-ray polarization detection of Cassiopeia A with IXPE*, **Astrophys.J.** 938 (2022) 1, 40, Lug 2022

Raniere de Menezes, Raffaele D'Abrusco, Francesco Massaro, Sara Buson, Astrophys.J. *The isotropic γ-ray emission above 100 GeV: where do very high energy γ rays come from?*, **Astrophys.J.** 933 (2022) 2, 213, Jun 2022

Stefano Camera, *A novel method for unbiased measurements of growth with cosmic shear*, **arXiv:2206.03499**, Jun 2022

Euclid Collaboration: R. Saglia, S. De Nicola, M. Fabricius, V. Guglielmo, J. Snigula, R. Zöller, R. Bender, J. Heidt, D. Masters, D. Stern, S. Paltani, A. Amara, N. Auricchio, M. Baldi, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J. McCracken, M. Melchior, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri , L. Stanco, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, J. Graciá-Carpio, D. Maino, N. Mauri, A. Tramacere, E. Zucca, A. Alvarez Ayllon, H. Aussel, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, A. Biviano, M. Bolzonella, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A. Cooray, J. Coupon, H.M. Courtois, S. Davini, G. Desprez, H. Dole, J.A. Escartin, S. Escoffier, M. Farina, S. Fotopoulou, K. Ganga, J. Garcia-Bellido, K. George, F. Giacomini, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, V. Kansal, A. Kashlinsky, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macías-Pérez, M. Magliocchetti, G. Mainetti, R. Maoli, M. Martinelli, N. Martinet, R. B. Metcalf, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, E. Sefusatti, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, A. Veropalumbo, M. Viel*, Euclid preparation: XX. The Complete Calibration of the Color-Redshift Relation survey: LBT observations and data release*, **Astron.Astrophys.** 664 (2022) A196, Jun 2022

Euclid Collaboration: E. Keihanen, V. Lindholm, P. Monaco, L. Blot, C. Carbone, K. Kiiveri, A.G. Sánchez, A. Viitanen, J. Valiviita, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, S. Ferriol, M. Frailis, E. Franceschi, M. Fumana, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, T. Kitching, M.

Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, F. Marulli, R. Massey, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, B. Morin, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, F. Raison, A. Renzi, J. Rhodes, E. Romelli, R. Saglia, B. Sartoris, P. Schneider, T. Schrabback, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco, C. Surace, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno , R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, D. Maino, S. de la Torre, *Euclid: Fast two-point correlation function covariance through linear construction*, **Astron.Astrophys.** 666 (2022) A129, Jun 2022

Euclid Collaboration: S. Contarini, G. Verza, A. Pisani, N. Hamaus, M. Sahlén, C. Carbone, S. Dusini, F. Marulli, L. Moscardini, A. Renzi, C. Sirignano, L. Stanco, M. Aubert, M. Bonici, G. Castignani, H.M. Courtois, S. Escoffier, D. Guinet, A. Kovacs, G. Lavaux, E. Massara, S. Nadathur, G. Pollina, T. Ronconi, F. Ruppin, Z. Sakr, A. Veropalumbo, B.D. Wandelt, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, F. Dubath, C.A.J. Duncan, X. Dupac, A. Ealet, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S. Haugan, W. Holmes, F. Hormuth, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kilbinger, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, R. Massey, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, G. Polenta, M. Poncet , L. Popa, L. Pozzetti, F. Raison, J. Rhodes, E. Rossetti, R. Saglia, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, G. Sirri, C. Surace, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, D. Maino, S. Mei, *Euclid: Cosmological forecasts from the void size function*, **Astron.Astrophys.** 667 (2022) A162, Jun 2022

S. Arcari, E. Pinetti, N. Fornengo, *Got plenty of nothing: cosmic voids as a probe of particle dark matter*, **JCAP** 11 (2022) 011, Jun 2022

Euclid Collaboration: R. Saglia, S. De Nicola, M. Fabricius, V. Guglielmo, J. Snigula, R. Zöller, R. Bender, J. Heidt, D. Masters, D. Stern, S. Paltani, A. Amara, N. Auricchio, M. Baldi, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J. McCracken, M. Melchior, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri , L. Stanco, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, J. Graciá-Carpio, D. Maino, N. Mauri, A. Tramacere, E. Zucca, A. Alvarez Ayllon, H. Aussel, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, A. Biviano, M. Bolzonella, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A. Cooray, J. Coupon, H.M.

Courtois, S. Davini, G. Desprez, H. Dole, J.A. Escartin, S. Escoffier, M. Farina, S. Fotopoulou, K. Ganga, J. Garcia-Bellido, K. George, F. Giacomini, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, V. Kansal, A. Kashlinsky, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macías-Pérez, M. Magliocchetti, G. Mainetti, R. Maoli, M. Martinelli, N. Martinet, R. B. Metcalf, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, E. Sefusatti, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, A. Veropalumbo, M. Viel *Euclid preparation - XXI. Intermediate-redshift contaminants in the search for z > 6 galaxies within the Euclid Deep Survey*, **Astron.Astrophys.** 666 (2022) A200, May 2022

Benedict Bahr-Kalus, David Parkinson, Jacobo Asorey, Stefano Camera, Catherine Hale, Fei Qin*, A measurement of the Integrated Sachs-Wolfe Effect with the Rapid ASKAP Continuum Survey*, **Mon.Not.Roy.Astron.Soc**. 517 (2022) 3, 3785-3803, Apr 2022

Euclid Collaboration: S. Contarini, G. Verza, A. Pisani, N. Hamaus, M. Sahlén, C. Carbone, S. Dusini, F. Marulli, L. Moscardini, A. Renzi, C. Sirignano, L. Stanco, M. Aubert, M. Bonici, G. Castignani, H.M. Courtois, S. Escoffier, D. Guinet, A. Kovacs, G. Lavaux, E. Massara, S. Nadathur, G. Pollina, T. Ronconi, F. Ruppin, Z. Sakr, A. Veropalumbo, B.D. Wandelt, A. Amara, N. Auricchio, M. Baldi, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, F. Dubath, C.A.J. Duncan, X. Dupac, A. Ealet, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S. Haugan, W. Holmes, F. Hormuth, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kilbinger, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, R. Massey, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, G. Polenta, M. Poncet , L. Popa, L. Pozzetti, F. Raison, J. Rhodes, E. Rossetti, R. Saglia, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, G. Sirri, C. Surace, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, D. Maino, S. Mei, *Euclid: Searching for pair-instability supernovae with the Deep Survey*, **Astron.Astrophys.** 666 (2022) A157, Apr 2022

Silvia Manconi, Alessandro Cuoco, Julien Lesgourgues*, Dark Matter constraints from Planck observations of the Galactic polarized synchrotron emission*, **Phys.Rev.Lett**. 129 (2022) 11, 111103, Apr 2022

Javier Reynoso-Cordova, Marco Regis, Marco Taoso, *Upper limits on the dark matter content in globular clusters***, JCAP** 10 (2022) 038, Mar 2022

Luca Orusa, Mattia Di Mauro, Fiorenza Donato, Michael Korsmeier, *New determination of the production cross section for secondary positrons and electrons in the Galaxy*, **Phys.Rev.D** 105 (2022) 12, 12, Mar 2022

Konstantinos Tanidis, Federico R. Urban, Stefano Camera, *Constraining ultra-high-energy cosmic ray composition through cross-correlations*, **JCAP** 12 (2022) 003, Mar 2022

Euclid Collaboration: R. Saglia, S. De Nicola, M. Fabricius, V. Guglielmo, J. Snigula, R. Zöller, R. Bender, J. Heidt, D. Masters, D. Stern, S. Paltani, A. Amara, N. Auricchio, M. Baldi, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, J. Carretero,

M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, F. Marulli, R. Massey, H.J. McCracken, M. Melchior, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, E. Rossetti, D. Sapone, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri , L. Stanco, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, J. Graciá-Carpio, D. Maino, N. Mauri, A. Tramacere, E. Zucca, A. Alvarez Ayllon, H. Aussel, C. Baccigalupi, A. Balaguera-Antolínez, M. Ballardini, A. Biviano, M. Bolzonella, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A. Cooray, J. Coupon, H.M. Courtois, S. Davini, G. Desprez, H. Dole, J.A. Escartin, S. Escoffier, M. Farina, S. Fotopoulou, K. Ganga, J. Garcia-Bellido, K. George, F. Giacomini, G. Gozaliasl, H. Hildebrandt, I. Hook, O. Ilbert, V. Kansal, A. Kashlinsky, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J. Macías-Pérez, M. Magliocchetti, G. Mainetti, R. Maoli, M. Martinelli, N. Martinet, R. B. Metcalf, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, V. Popa, C. Porciani, D. Potter, A. Pourtsidou, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, E. Sefusatti, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, A. Veropalumbo, M. Viel *Euclid preparation - XVIII. The NISP photometric system*, **Astron.Astrophys.** 662 (2022) A92, Mar 2022

Crispin H. A. Logan, Ben J. Maughan, Antonaldo Diaferio, Ryan T. Duffy, Margaret J. Geller, Kenneth Rines, Jubee Sohn*, Chandra follow up of the Hectospec Cluster Survey: Comparison of Caustic and Hydrostatic Masses and Constraints on the Hydrostatic Bias*, **Astron.Astrophys**. 665 (2022) A124, Feb 2022

Michael Korsmeier, Elena Pinetti, Michela Negro, Marco Regis, Nicolao Fornengo, *Flat spectrum radio quasars and BL Lacs dominate the anisotropy of the unresolved gamma-ray background*, **Astrophys.J.** 933 (2022) 2, 221, Feb 2022

Kenneth J. Rines, Jubee Sohn, Margaret J. Geller, Antonaldo Diaferio*, A Spectroscopic View of the JWST/GTO Strong Lensing Cluster A1489*, **Astrophys.J.** 930 (2022) 2, 156, Jan 2022

V. Cesare, A. Diaferio, T. Matsakos, *The dynamics of three nearby E0 galaxies in refracted gravity*, **Astron.Astrophys**. 657 (2022) A133, Jan 2022

Euclid Collaboration: L. Bisigello, C.J. Conselice, M. Baes, M. Bolzonella, M. Brescia, S. Cavuoti, O. Cucciati, A. Humphrey, L. K. Hunt, C. Maraston, L. Pozzetti, C. Tortora, S.E. van Mierlo, N. Aghanim, N. Auricchio, M. Baldi, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, J. Brinchmann, S. Camera, V. Capobianco, C. Carbone, J. Carretero, F.J. Castander, M. Castellano, A. Cimatti, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S.V.H. Haugan, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, M. Kümmel, S. Kermiche, A. Kiessling, M. Kilbinger, R. Kohley, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O.

Marggraf, K. Markovic, F. Marulli, R. Massey, S. Maurogordato, E. Medinaceli, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, G. Polenta, M. Poncet, L. Popa, F. Raison, A. Renzi, J. Rhodes, G. Riccio, H.-W. Rix, E. Romelli, M. Roncarelli , C. Rosset, E. Rossetti, R. Saglia, D. Sapone, B. Sartoris, P. Schneider, M. Scodeggio, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, I. Tutusaus, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, A. Zacchei, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli A. Boucaud, C. Colodro-Conde, D. Di Ferdinando, J. Graciá-Carpio, V. Lindholm, D. Maino, S. Mei, V. Scottez, F. Sureau, M. Tenti, E. Zucca, A. S. Borlaff, M. Ballardini, A. Biviano, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, A. Cooray, J. Coupon, H.M. Courtois, J. Cuby, S. Davini, G. De Lucia, G. Desprez, H. Dole, J.A. Escartin, S. Escoffier, M. Farina, S. Fotopoulou, K. Ganga, J. Garcia-Bellido, K. George, F. Giacomini, G. Gozaliasl, H. Hildebrandt, I. Hook, M. Huertas-Company, V. Kansal, E. Keihanen, C.C. Kirkpatrick, A. Loureiro, J.F. Macías-Pérez, M. Magliocchetti, G. Mainetti, S. Marcin, M. Martinelli, N. Martinet, R.B. Metcalf, P. Monaco, G. Morgante, S. Nadathur, A.A. Nucita, L. Patrizii, A. Peel, D. Potter, A. Pourtsidou, M. Pöntinen, P. Reimberg, A.G. Sánchez, Z. Sakr, M. Schirmer, E. Sefusatti, M. Sereno, J. Stadel, R. Teyssier, C. Valieri, J. Valiviita, M. Viel, *Euclid preparation: XXIII. Derivation of galaxy physical properties with deep machine learning using mock fluxes and H-band images*, **Mon.Not.Roy.Astron.Soc**. 520 (2023) 3, 3529-3548, Jun 2022

IXPE Collaboration: Fei Xie, Alessandro Di Marco, Fabio La Monaca, Kuan Liu, Fabio Muleri, Niccolò Bucciantini, Roger W. Romani, Enrico Costa, John Rankin, Paolo Soffitta, Matteo Bachetti, Niccolò Di Lalla, Sergio Fabiani, Riccardo Ferrazzoli, Shuichi Gunji, Luca Latronico, Michela Negro, Nicola Omodei, Maura Pilia, Alessio Trois, Eri Watanabe, Iván Agudo, Lucio A. Antonelli, Luca Baldini, Wayne H. Baumgartner, Ronaldo Bellazzini, Stefano Bianchi, Stephen D. Bongiorno, Raffaella Bonino, Alessandro Brez, Fiamma Capitanio, Simone Castellano, Elisabetta Cavazzuti, Stefano Ciprini, Alessandra De Rosa, Ettore Del Monte, Laura Di Gesu, Immacolata Donnarumma, Victor Doroshenko, Michal Dovčiak, Steven R. Ehlert, Teruaki Enoto, Yuri Evangelista, Javier A. Garcia, Kiyoshi Hayashida, Jeremy Heyl, Wataru Iwakiri, Svetlana G. Jorstad, Vladimir Karas, Takao Kitaguchi, Jeffery J. Kolodziejczak, Henric Krawczynski, Ioannis Liodakis, Simone Maldera, Alberto Manfreda, Frédéric Marin, Andrea Marinucci, Alan P. Marscher, Herman L. Marshall, Francesco Massaro, Giorgio Matt, Ikuyuki Mitsuishi, Tsunefumi Mizuno, C.-Y. Ng, Stephen L. O'Dell, Chiara Oppedisano, Alessandro Papitto, George G. Pavlov, Abel L. Peirson, Matteo Perri, Melissa Pesce-Rollins, Pierre-Olivier Petrucci, Andrea Possenti, Juri Poutanen, Simonetta Puccetti, Brian D. Ramsey, Ajay Ratheesh, Carmelo Sgró, Patrick Slane, Gloria Spandre, Toru Tamagawa, Fabrizio Tavecchio, Roberto Taverna, Yuzuru Tawara, Allyn F. Tennant, Nicolas E. Thomas, Francesco Tombesi, Sergey S. Tsygankov, Roberto Turolla, Jacco Vink, Martin C. Weisskopf, Kinwah Wu, Silvia Zane, *Vela pulsar wind nebula x-rays are polarized to near the synchrotron limit*, **Nature** 612 (2022) 658-660, Mar 2022

Anna Balaudo, Francesca Calore, Valentina De Romeri, Fiorenza Donato, *HADES: a new numerical tool for the determination of DM over-densities***, arXiv.2112.11138**, Dec 2021

Michael Korsmeier, Alessandro Cuoco, *Testing the universality of cosmic-ray nuclei from protons to oxygen with AMS-02*, **Phys.Rev.D** 105 (2022) 10, 103033, Dec 2021

Euclid Collaboration: R.E. Upham, M.L. Brown, L. Whittaker, A. Amara, N. Auricchio, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S.

Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, A. Hornstrup, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kümmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, O. Marggraf, K. Markovic, F. Marulli, M. Meneghetti, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, M. Poncet, L. Popa, F. Raison, J. Rhodes, E. Rossetti, R. Saglia, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, L. Valenziano, Y. Wang, G. Zamorani, J. Zoubian, S. Andreon, M. Baldi, S. Camera, V.F. Cardone, G. Fabbian, G. Polenta , A. Renzi, B. Joachimi, A. Hall, A. Loureiro, E. Sellentin, Euclid: Covariance of weak lensing pseudo-Cℓ estimates. *Calculation, comparison to simulations, and dependence on survey geometry*, **Astron.Astrophys.** 660 (2022) A114, Dec 2021

Andrea Rubiola, Steven Cunnington, Stefano Camera, *Baryon acoustic oscillations from H i intensity mapping: The importance of cross-correlations in the monopole and quadrupole*, **Mon.Not.Roy.Astron.Soc**. 516 (2022), Nov 2021

Arianna Gallo, Luisa Ostorero, Sankha Subhra Chakrabarty, Stefano Ebagezio, Antonaldo Diaferio, *Probing the shape of the Milky Way dark matter halo with hypervelocity stars: A new method,* **Astron.Astrophys**. 663 (2022) A72, Nov 2021

M. Pizzardo, J. Sohn, M.J. Geller, A. Diaferio, K. Rines, *Mass Accretion Rates of the HectoMAP Clusters of Galaxies*, **Astrophys.J.** 927 (2022) 1, 26, Nov 2021

Małgosia Sobolewska, Giulia Migliori, Luisa Ostorero, Aneta Siemiginowska, Łukasz Stawarz, Matteo Guainazzi, Martin Hardcastle, *The Origin of High Energy Emission in the Young Radio Source PKS 1718-649*, **Astrophys.J**. 941 (2022) 1, 52, Nov 2021

Romana Grossová, Norbert Werner, Francesco Massaro, Kiran Lakhchaura, Tomáš Plšek, Krizstina Gabányi, Kamlesh Rajpurohit, Rebecca E. A. Canning, Paul Nulsen, Ewan O'Sullivan, Steven W. Allen, Andrew Fabian, *VLA Radio Study of a Sample of Nearby X-ray and Optically Bright Early-Type Galaxies*, **Astrophys.J.Supp.** 258 (2022) 2, 30, Nov 2021

Euclid Collaboration: Andrea Moneti, H.J. McCracken, M. Shuntov, O.B. Kauffmann, P. Capak, I. Davidzon, O. Ilbert, C. Scarlata, S. Toft, J. Weaver, R. Chary, J. Cuby, A.L. Faisst, D.C. Masters, C. McPartland, B. Mobasher, D.B. Sanders, R. Scaramella, D. Stern, I. Szapudi, H. Teplitz, L. Zalesky, A. Amara, N. Auricchio, C. Bodendorf, D. Bonino, E. Branchini, S. Brau-Nogue, M. Brescia, J. Brinchmann, V. Capobianco, C. Carbone, J. Carretero, F.J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, A. Costille, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, B.R. Granett, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, R. Kohley, M. Kuemmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, S. Maurogordato, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, S. Pires , M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, J. Rhodes, H. Rix, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A.

Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, P. Tallada-Crespi, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, Y. Wang, N. Welikala, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, S. Camera, J. Gracia-Carpio, E. Medinaceli, S. Mei, G. Polenta, E. Romelli, F. Sureau, M. Tenti, T. Vassallo, A. Zacchei, E. Zucca, C. Baccigalupi, A. Balaguera-Antolinez, F. Bernardeau, A. Biviano, M. Bolzonella, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, S. Casas, G. Castignani, C. Colodro-Conde, J. Coupon, H.M. Courtois, D. Di Ferdinando, M. Farina, F. Finelli, P. Flose-Reimberg, S. Fotopoulou, S. Galeotta, K. Ganga, J. Garcia-Bellido, E. Gaztanaga, G. Gozaliasl, I. Hook, B. Joachimi, V. Kansal, E. Keihanen, C.C. Kirkpatrick, V. Lindholm, G. Mainetti, D. Maino, R. Maoli, M. Martinelli, N. Martinet, M. Maturi, R. B. Metcalf, G. Morgante, N. Morisset, A. Nucita, L. Patrizii, D. Potter, A. Renzi, G. Riccio, A.G. Sanchez, D. Sapone, M. Schirmer, M. Schultheis, V. Scottez, E. Sefusatti, R. Teyssier, O. Tubio, I. Tutusaus, J. Valiviita, M. Viel, H. Hildebrandt*, Euclid preparation: XVIII. Cosmic Dawn Survey. Spitzer observations of the Euclid deep fields and calibration fields,* **Astron.Astrophys.** 658 (2022) A126, Nov 2021

Euclid Collaboration: S. Nesseris, D. Sapone, M. Martinelli, D. Camarena, V. Marra, Z. Sakr, J. Garcia-Bellido, C.J.A.P. Martins, C. Clarkson, A. Da Silva, P. Fleury, L. Lombriser, J.P. Mimoso, S. Casas, V. Pettorino, I. Tutusaus, A. Amara, N. Auricchio, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, F. Courbin, M. Cropper, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, A. Kiessling, T. Kitching, M. Kümmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, M. Poncet, L. Popa, G.D. Racca, F. Raison, J. Rhodes, M. Roncarelli, R. Saglia, B. Sartoris, P. Schneider, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, P. Tallada-Crespí, A.N. Taylor , I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, N. Welikala, G. Zamorani, J. Zoubian, S. Andreon, M. Baldi, S. Camera, E. Medinaceli, S. Mei, A. Renzi, *Euclid: Forecast constraints on consistency tests of the ΛCDM model,* **Astron.Astrophys**. 660 (2022) A67, Nov 2021

KiDS and Euclid Collaborations: A. Loureiro, L. Whittaker, A. Spurio Mancini, B. Joachimi, A. Cuceu, M. Asgari, B. Stölzner, T. Tröster, A. H. Wright, M. Bilicki, A. Dvornik, B. Giblin, C. Heymans, H. Hildebrandt, H. Shan, A. Amara, N. Auricchio, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, M. Cropper, A. Da Silva, M. Douspis, F. Dubath, C. A. J. Duncan, X. Dupac, S. Dusini, S. Farrens, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S. V. H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kümmel, K. Kuijken, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, M. Meneghetti, G. Meylan, M. Moresco, B. Morin, L. Moscardini, E. Munari, S. M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, M. Poncet, L. Popa, F. Raison, J. Rhodes, H. Rix, M. Roncarelli, R. Saglia, P. Schneider, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, J. L. Starck, P. Tallada-Crespí, A. N. Taylor, I. Tereno , R. Toledo-Moreo, F. Torradeflot, E. A. Valentijn, Y. Wang, N. Welikala, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, M. Baldi, S. Camera, R. Farinelli, G. Polenta, N. Tessore, *KiDS & Euclid: Cosmological implications of a pseudo angular power spectrum analysis of KiDS-1000 cosmic shear tomography*, **Astron.Astrophys**. 665 (2022) A56, Oct 2021

Euclid Collaboration: F. Lepori, I. Tutusaus, C. Viglione, C. Bonvin, S. Camera, F.J. Castander, R. Durrer, P. Fosalba, G. Jelic-Cizmek, M. Kunz, J. Adamek, S. Casas, M. Martinelli, Z. Sakr, D. Sapone, A. Amara, N. Auricchio, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, C. Carbone, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, F. Courbin, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, X. Dupac, S. Dusini, A. Ealet, S. Farrens, S. Ferriol, E. Franceschi, M. Fumana, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S.V.H. Haugan, W. Holmes, F. Hormuth, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kümmel, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, S. Maurogordato, M. Melchior, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, E. Munari, R. Nakajima, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, J. Rhodes, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A. Secroun, G. Seidel , S. Serrano, C. Sirignano, G. Sirri, L. Stanco, J.-L. Starck, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, J. Weller, G. Zamorani, J. Zoubian, S. Andreon, S. Bardelli, G. Fabbian, J. Graciá-Carpio, D. Maino, E. Medinaceli, S. Mei, A. Renzi, E. Romelli, F. Sureau, T. Vassallo, A. Zacchei, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, F. Bernardeau, A. Biviano, A. Blanchard, M. Bolzonella, S. Borgani, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, G. Castignani, C. Colodro-Conde, J. Coupon, H.M. Courtois, J.-G. Cuby, S. Davini, S. de la Torre, D. Di Ferdinando, M. Farina, P.G. Ferreira, F. Finelli, S. Galeotta, K. Ganga, J. Garcia-Bellido, E. Gaztanaga, G. Gozaliasl, I.M. Hook, S. Ilić, B. Joachimi, V. Kansal, E. Keihanen, C.C. Kirkpatrick, V. Lindholm, G. Mainetti, R. Maoli, N. Martinet, M. Maturi, R.B. Metcalf, P. Monaco, G. Morgante, J. Nightingale, A. Nucita, L. Patrizii, V. Popa, D. Potter, G. Riccio, A.G Sánchez, M. Schirmer, M. Schultheis, V. Scottez, E. Sefusatti, A. Tramacere, J. Valiviita, M. Viel, H. Hildebrandt, *Euclid preparation: XIX. Impact of magnification on photometric galaxy clustering*, **Astron.Astrophys.** 662 (2022) A93, Oct 2021

Andrea Pierfrancesco Sanna, Titos Matsakos, Antonaldo Diaferio, *Covariant Formulation of refracted gravity***, arXiv.2109.11217**, Sept 2021

Euclid Collaboration, M.S. Cagliari, B.R. Granett, L. Guzzo, M. Bolzonella, L. Pozzetti, I. Tutusaus, S. Camera, A. Amara, N. Auricchio, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, V. Capobianco, C. Carbone, J. Carretero, F.J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, M. Cropper, H. Degaudenzi, M. Douspis, F. Dubath, S. Dusini, A. Ealet, S. Ferriol, N. Fourmanoit, M. Frailis, E. Franceschi, P. Franzetti, B. Garilli, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kummel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, E. Maiorano, O. Mansutti, O. Marggraf, K. Markovic, R. Massey, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, L. Moscardini, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, M. Poncet, L. Popa, F. Raison, R. Rebolo, J. Rhodes, H.-W. Rix, M. Roncarelli, E. Rossetti, R. Saglia, R. Scaramella, P. Schneider, M. Scodeggio, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, E.A. Valentijn, L. Valenziano, Y. Wang , N. Welikala, J. Weller, G. Zamorani, J. Zoubian, M. Baldi, R. Farinelli, E. Medinaceli, S. Mei, G. Polenta, E. Romelli, T. Vassallo, A. Humphrey, *Euclid: Constraining ensemble photometric redshift distributions with stacked spectroscopy*, **Astron.Astrophys**. 660 (2022) A9, Sept 2021

Seán Mooney, Francesco Massaro, John Quinn, Alessandro Capetti, Ranieri D. Baldi, Gülay Gürkan, Martin J. Hardcastle, Cathy Horellou, Beatriz Mingo, Raffaella Morganti, Shane O'Sullivan, Urszula Pajdosz-Śmierciak, Mamta Pandey-Pommier, Huub Röttgering, *Characterising the extended morphologies of BL Lacs at 144 MHz with LOFAR*, **Astrophys.J.Supp**. 257 (2021) 2, 30, Sept 2021

Fabien Malbet (IPAG), Céline Boehm (LAPTH), Alberto Krone-Martins, Antonio Amorim, Guillem Anglada-Escudé (QMUL), Alexis Brandeker, Frédéric Courbin (EPFL), Torsten Enßlin, Antonio Falcão, Katherine Freese, Berry Holl, Lucas Labadie, Alain Léger, Gary Mamon, Barbara Mcarthur, Alcione Mora, Mike Shao, Alessandro Sozzetti, Douglas Spolyar, Eva Villaver, Ummi Abbas, Conrado Albertus, João Alves, Rory Barnes, Aldo Stefano Bonomo, Hervé Bouy, Warren Brown, Vitor Cardoso, Marco Castellani, Laurent Chemin, Hamish Clark, Alexandre Correia, Mariateresa Crosta, Antoine Crouzier, Mario Damasso, Jeremy Darling, Melvyn Davies, Antonaldo Diaferio, Morgane Fortin, Malcolm Fridlund, Mario Gai, Paulo Garcia, Oleg Gnedin, Ariel Goobar, Paulo Gordo, Renaud Goullioud, David Hall, Nigel Hambly, Diana Harrison, David Hobbs, Andrew Holland, Erik Høg, Carme Jordi, Sergei Klioner, Ariane Lançon, Jacques Laskar, Mario Lattanzi, Christophe Le Poncin-Lafitte, Xavier Luri, Daniel Michalik, André Moitinho de Almeida, Ana Mourão, Leonidas Moustakas, Neil Murray, Matthew Muterspaugh, Micaela Oertel, Luisa Ostorero, Jordi Portell, Jean-Pierre Prost, Andreas Quirrenbach, Jean Schneider, Pat Scott, Arnaud Siebert, Antonio Da Silva, Manuel Silva, Philippe Thébault, John Tomsick, Wesley Traub, Miguel de Val-Borro, Monica Valluri, Nicholas Walton, Laura Watkins, Glenn White, Lukasz Wyrzykowski, Rosemary Wyse, Yoshiyuki Yamada, *Faint objects in motion: the new frontier of high precision astrometry*, **Exper.Astron**. 51 (2021) 3, 845-886, Nov 2021

Euclid Collaboration, N. Hamaus, M. Aubert, A. Pisani, S. Contarini, G. Verza, M.-C. Cousinou, S. Escoffier, A. Hawken, G. Lavaux, G. Pollina, B.D. Wandelt, J. Weller, M. Bonici, C. Carbone, L. Guzzo, A. Kovacs, F. Marulli, E. Massara, L. Moscardini, P. Ntelis, W.J. Percival, S. Radinović, M. Sahlén, Z. Sakr, A.G. Sánchez, H.A. Winther, N. Auricchio, S. Awan, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, J. Carretero, F.J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, Y. Copin, L. Corcione, M. Cropper, A. Da Silva, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Ferriol, P. Fosalba, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, T. Kitching, M. Kümmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, R. Massey, S. Maurogordato, M. Melchior, M. Meneghetti, G. Meylan, M. Moresco, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, R. Rebolo , J. Rhodes, H. Rix, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, J.-L. Starck, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, Y. Wang, N. Welikala, G. Zamorani, J. Zoubian, S. Andreon, M. Baldi, S. Camera, S. Mei, C. Neissner, E. Romelli, *Euclid: Forecasts from redshift-space distortions and the Alcock-Paczynski test with cosmic voids*, **Astron.Astrophys.** 658 (2022) A20, Aug 2021

Euclid Collaboration, R. Scaramella, J. Amiaux, Y. Mellier, C. Burigana, C.S. Carvalho, J.-C. Cuillandre, A. Da Silva, A. Derosa, J. Dinis, E. Maiorano, M. Maris, I. Tereno, R. Laureijs, T. Boenke, G. Buenadicha, X. Dupac, L.M. Gaspar Venancio, P. Gómez-Álvarez, J. Hoar, J. Lorenzo Alvarez, G.D. Racca, G. Saavedra-Criado, J. Schwartz, R. Vavrek, M. Schirmer, H. Aussel, R. Azzollini, V.F. Cardone,

M. Cropper, A. Ealet, B. Garilli, W. Gillard, B.R. Granett, L. Guzzo, H. Hoekstra, K. Jahnke, T. Kitching, M. Meneghetti, L. Miller, R. Nakajima, S.M. Niemi, F. Pasian, W.J. Percival, M. Sauvage, M. Scodeggio, S. Wachter, A. Zacchei, N. Aghanim, A. Amara, T. Auphan, N. Auricchio, S. Awan, A. Balestra, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, S. Brau-Nogue, M. Brescia, G.P. Candini, V. Capobianco, C. Carbone, R.G. Carlberg, J. Carretero, R. Casas, F.J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, A. Costille, F. Courbin, H. Degaudenzi, M. Douspis, F. Dubath, C.A.J. Duncan, S. Dusini, S. Farrens, S. Ferriol, P. Fosalba, N. Fourmanoit, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, P. Hudelot, S. Kermiche, A. Kiessling , M. Kilbinger, R. Kohley, B. Kubik, M. Kümmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, F. Marulli, R. Massey, S. Maurogordato, M. Melchior, E. Merlin, G. Meylan, J.J. Mohr, M. Moresco, B. Morin, L. Moscardini, E. Munari, R.C. Nichol, C. Padilla, S. Paltani, J. Peacock, K. Pedersen, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, J. Rhodes, H.-W. Rix, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, T. Schrabback, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, J. Skottfelt, L. Stanco, J.L. Starck, P. Tallada-Crespí, D. Tavagnacco, A.N. Taylor, H.I. Teplitz, R. Toledo-Moreo, F. Torradeflot, M. Trifoglio, E.A. Valentijn, L. Valenziano, G.A. Verdoes Kleijn, Y. Wang, N. Welikala, J. Weller, M. Wetzstein, G. Zamorani, J. Zoubian, S. Andreon, M. Baldi, S. Bardelli, A. Boucaud, S. Camera, G. Fabbian, R. Farinelli, J. Graciá-Carpio, D. Maino, E. Medinaceli, S. Mei, C. Neissner, G. Polenta, A. Renzi, E. Romelli, C. Rosset, F. Sureau, M. Tenti, T. Vassallo, E. Zucca, C. Baccigalupi, A. Balaguera-Antolínez, P. Battaglia, A. Biviano, S. Borgani, E. Bozzo, R. Cabanac, A. Cappi, S. Casas, G. Castignani, C. Colodro-Conde, J. Coupon, H.M. Courtois, J. Cuby, S. de la Torre, S. Desai, D. Di Ferdinando, H. Dole, M. Fabricius, M. Farina, P.G. Ferreira, F. Finelli, P. Flose-Reimberg, S. Fotopoulou, S. Galeotta, K. Ganga, G. Gozaliasl, I.M. Hook, E. Keihanen, C.C. Kirkpatrick, P. Liebing, V. Lindholm, G. Mainetti, M. Martinelli, N. Martinet, M. Maturi, H.J. McCracken, R. B. Metcalf, G. Morgante, J. Nightingale, A. Nucita, L. Patrizii, D. Potter, G. Riccio, A.G. Sánchez, D. Sapone, J.A. Schewtschenko, M. Schultheis, V. Scottez, R. Teyssier, I. Tutusaus, J. Valiviita, M. Viel, W. Vriend, L. Whittaker, *Euclid preparation: I. The Euclid Wide Survey*, **Astron.Astrophys**. 662 (2022) A112, Aug 2021

Harold A. Peña-Herazo, Francesco Massaro, Minfeng Gu, Alessandro Paggi, Marco Landoni, Raffaele D'Abrusco, Federica Ricci, Nicola Masetti, Vahram Chavushyan, *An Optical Overview of Blazars with LAMOST. II. Gamma-Ray Blazar Candidates and Updated Classifications*, **Astron.J**. 162 (2021) 2, 76, Jul 2021

Roy Maartens, José Fonseca, Stefano Camera, Sheean Jolicoeur, Jan-Albert Viljoen, Chris Clarkson, *Magnification and evolution biases in large-scale structure surveys*, **JCAP** 12 (2021) 12, 009, Jul 2021

Luca Orusa, Silvia Manconi, Fiorenza Donato, Mattia Di Mauro, *Constraining positron emission from pulsar populations with AMS-02 data*, **JCAP** 12 (2021) 12, 01, Jul 2021

Konstantinos Tanidis, Stefano Camera, *Model-independent Constraints on Clustering and Growth of Cosmic Structures from BOSS DR12 Galaxies in Harmonic Space*, **Astrophys.J.** 948 (2023) 1, 6, Jun 2021

Matteo Martinelli, Roohi Dalal, Fereshteh Majidi, Yashar Akrami, Stefano Camera, Elena Sellentin, *Ultra-large-scale approximations and galaxy clustering: debiasing constraints on cosmological parameters*, **Mon.Not.Roy.Astron.Soc**. 510 (2022) 2, 1964-1977, Jun 2021

Jubee Sohn, Margaret J. Geller, Ho Seong Hwang, Antonaldo Diaferio, Kenneth J. Rines, Yousuke Utsumi, *The HectoMAP Cluster Survey: Spectroscopically Identified Clusters and their Brightest Cluster Galaxies (BCGs),* **Astrophys.J.** 923 (2021) 2, 143, Jun 2021

Euclid Collaboration: S. A. Stanford, D. Masters, B. Darvish, D. Stern, J. G. Cohen, P. Capak, N. Hernitschek, I. Davidzon, J. Rhodes, D. B. Sanders, B. Mobasher, F. J. Castander, S. Paltani, N. Aghanim, A. Amara, N. Auricchio, A. Balestra, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, J. Brinchmann, V. Capobianco, C. Carbone, J. Carretero, R. Casas, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, C. J. Conselice, L. Corcione, A. Costille, M. Cropper, H. Degaudenzi, M. Douspis, F. Dubath, S. Dusini, P. Fosalba, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, B. Garilli, C. Giocoli, F. Grupp, S. V. H. Haugan, H. Hoekstra, W. Holmes, F. Hormuth, P. Hudelot, K. Jahnke, A. Kiessling, M. Kilbinger, T. Kitching, B. Kubik, M. Kummel, M. Kunz, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, R. Massey, M. Meneghetti, G. Meylan, L. Moscardini, S. M. Niemi, C. Padilla, F. Pasian, K. Pedersen, V. Pettorino, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, M. Roncarelli, E. Rossetti, R. Saglia, R. Scaramella, P. Schneider, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, A.N. Taylor, H.I. Teplitz, I. Tereno, R. Toledo-Moreo, E.A. Valentijn, L. Valenziano, G.A. Verdoes Kleijn, Y. Wang, G. Zamorani , J. Zoubian, M. Brescia, G. Congedo, L. Conversi, Y. Copin, S. Kermiche, R. Kohley, E. Medinaceli, S. Mei, M. Moresco, B. Morin, E. Munari, G. Polenta, F. Sureau, P. Tallada Crespí, T. Vassallo, A. Zacchei, S. Andreon, H. Aussel, C. Baccigalupi, A. Balaguera-Antolínez, M. Baldi, S. Bardelli, A. Biviano, E. Borsato, E. Bozzo, C. Burigana, R. Cabanac, S. Camera, A. Cappi, C. S. Carvalho, S. Casas, G. Castignani, C. Colodro-Conde, J. Coupon, H. M. Courtois, J.-G. Cuby, A. Da Silva, S. de la Torre, D. Di Ferdinando, C. A. J. Duncan, X. Dupac, M. Fabricius, M. Farina, S. Farrens, P. G. Ferreira, F. Finelli, P. Flose-Reimberg, S. Fotopoulou, S. Galeotta, K. Ganga, W. Gillard, G. Gozaliasl, J. Graciá-Carpio, E. Keihanen, C. C. Kirkpatrick, V. Lindholm, G. Mainetti, D. Maino, N. Martinet, F. Marulli, M. Maturi, S. Maurogordato, R. B. Metcalf, R. Nakajima, C. Neissner, J. W. Nightingale, A. A. Nucita, L. Patrizii, D. Potter, A. Renzi, G. Riccio, E. Romelli, A. G. Sanchez, D. Sapone, M. Schirmer, M. Schultheis, V. Scottez, L. Stanco, M. Tenti, R. Teyssier, F. Torradeflot, J. Valiviita, M. Viel, L. Whittaker, E. Zucca*, Euclid Preparation: XIV. The Complete Calibration of the Color-Redshift Relation (C3R2) Survey: Data Release 3*, **Astrophys.J.Supp**. 256 (2021) 1, 9, Jun 2021

Marco Regis, Javier Reynoso-Cordova, Miroslav D. Filipović, Marcus Brüggen, Ettore Carretti, Jordan Collier, Andrew M. Hopkins, Emil Lenc, Umberto Maio, Joshua R. Marvil, Ray P. Norris, Tessa Vernstrom, *The EMU view of the Large Magellanic Cloud: Troubles for sub-TeV WIMPs*, **JCAP** 11 (2021) 11, 046, Jun 2021

Euclid Collaboration: S. Ilić, N. Aghanim, C. Baccigalupi, J.R. Bermejo-Climent, G. Fabbian, L. Legrand, D. Paoletti, M. Ballardini, M. Archidiacono, M. Douspis, F. Finelli, K. Ganga, C. Hernández-Monteagudo, M. Lattanzi, D. Marinucci, M. Migliaccio, C. Carbone, S. Casas, M. Martinelli, I. Tutusaus, P. Natoli, P. Ntelis, L. Pagano, L. Wenzl, A. Gruppuso, T. Kitching, M. Langer, N. Mauri, L. Patrizii, A. Renzi, G. Sirri, L. Stanco, M. Tenti, P. Vielzeuf, F. Lacasa, G. Polenta, V. Yankelevich, A. Blanchard, Z. Sakr, A. Pourtsidou, S. Camera, V.F. Cardone, M. Kilbinger, M. Kunz, K. Markovic, V. Pettorino, A.G. Sánchez, D. Sapone, A. Amara, N. Auricchio, R. Bender, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, J. Carretero, F.J. Castander, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, A. Costille, M. Cropper, A. Da Silva, H. Degaudenzi, F. Dubath, C.A.J. Duncan, X. Dupac, S. Dusini, A. Ealet, S. Farrens, P. Fosalba, M. Frailis, E. Franceschi, P. Franzetti, M. Fumana, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, A. Grazian, F. Grupp, L. Guzzo, S.V.H. Haugan, H. Hoekstra, W. Holmes, F.

Hormuth, P. Hudelot, K. Jahnke, S. Kermiche, A. Kiessling, R. Kohley , B. Kubik, M. Kümmel, H. Kurki-Suonio, R. Laureijs, S. Ligori, P. B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, F. Marulli, R. Massey, S. Maurogordato, M. Meneghetti, E. Merlin, G. Meylan, M. Moresco, B. Morin, L. Moscardini, E. Munari, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W. Percival, S. Pires, M. Poncet, L. Popa, L. Pozzetti, F. Raison, R. Rebolo, J. Rhodes, M. Roncarelli, E. Rossetti, R. Saglia, R. Scaramella, P. Schneider, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, J.L. Starck, P. Tallada-Crespí, A.N. Taylor, I. Tereno, R. Toledo-Moreo, F. Torradeflot, E.A. Valentijn, L. Valenziano, G.A. Verdoes Kleijn, Y. Wang, N. Welikala, J. Weller, G. Zamorani, J. Zoubian, E. Medinaceli, S. Mei, C. Rosset, F. Sureau, T. Vassallo, A. Zacchei, S. Andreon, A. Balaguera-Antolínez, M. Baldi, S. Bardelli, A. Biviano, S. Borgani, E. Bozzo, C. Burigana, R. Cabanac, A. Cappi, C.S. Carvalho, G. Castignani, C. Colodro-Conde, J. Coupon, H.M. Courtois, J. Cuby, S. de la Torre, D. Di Ferdinando, H. Dole, M. Farina, P.G. Ferreira, P. Flose-Reimberg, S. Galeotta, G. Gozaliasl, J. Graciá-Carpio, E. Keihanen, C.C. Kirkpatrick, V. Lindholm, G. Mainetti, D. Maino, N. Martinet, M. Maturi, R.B. Metcalf, G. Morgante, C. Neissner, J. Nightingale, A.A. Nucita, D. Potter, G. Riccio, E. Romelli, M. Schirmer, M. Schultheis, V. Scottez, R. Teyssier, A. Tramacere, J. Valiviita, M. Viel, L. Whittaker, E. Zucca, *Euclid preparation: XV. Forecasting cosmological constraints for the Euclid and CMB joint analysis*, **Astron.Astrophys.** 657 (2022) A91, Jun 2021

G. Parimbelli, G. Scelfo, S. K. Giri, A. Schneider, M. Archidiacono, S. Camera, M. Viel, *Mixed dark matter: matter power spectrum and halo mass function,* **JCAP** 12 (2021) 12, 044, Jun 2021

Sarah Recchia, Mattia Di Mauro, Felix A. Aharonian, Luca Orusa, Fiorenza Donato, Stefano Gabici, Silvia Manconi*, Does the Geminga, Monogem and PSR J0622+3749 γ-ray halos imply slow diffusion around pulsars?,* **Phys.Rev.D** 104 (2021) 12, 123017, Jun 2021

Euclid Collaboration: M. Martinelli, C.J.A.P. Martins, S. Nesseris, I. Tutusaus, A. Blanchard, S. Camera, C. Carbone, S. Casas, V. Pettorino, Z. Sakr, V. Yankelevich, D. Sapone, A. Amara, N. Auricchio, C. Bodendorf, D. Bonino, E. Branchini, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, L. Corcione, A. Costille, H. Degaudenzi, M. Douspis, F. Dubath, S. Dusini, A. Ealet, S. Ferriol, M. Frailis, E. Franceschi, B. Garilli, C. Giocoli, A. Grazian, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, A. Kiessling, M. Kümmel, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Mansutti, O. Marggraf, K. Markovic, R. Massey, M. Meneghetti, G. Meylan, L. Moscardini, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, S. Pires, M. Poncet, L. Popa, F. Raison, R. Rebolo, J. Rhodes, M. Roncarelli, E. Rossetti, R. Saglia, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, J.-L. Starck, D. Tavagnacco, A.N. Taylor, I. Tereno, R. Toledo-Moreo, L. Valenziano, Y. Wang, G. Zamorani, J. Zoubian, M. Baldi, M. Brescia, G. Congedo, L. Conversi, Y. Copin, G. Fabbian, R. Farinelli, E. Medinaceli, S. Mei, G. Polenta, E. Romelli, T. Vassallo, *Euclid: constraining dark energy coupled to electromagnetism using astrophysical and laboratory data*, **Astron.Astrophys.** 654 (2021) A148, May 2021

V. Missaglia, F. Massaro, E. Liuzzo, A. Paggi, R. P. Kraft, W. R. Forman, A. Jimenez-Gallardo, J. P. Madrid, F. Ricci, C. Stuardi, B. J. Wilkes, S. A. Baum, C. P. O'Dea, J. Kuraszkiewicz, G. R. Tremblay, A. Maselli, A. Capetti, E. Sani, B. Balmaverde, D. E. Harris, *Hidden treasures in the unknown 3CR extragalactic radio sky: a multi-wavelength approach*, **Astrophys.J.Supp.** 255 (2021) 1, 18, May 2021

Sankha Subhra Chakrabarty, Luisa Ostorero, Arianna Gallo, Stefano Ebagezio, Antonaldo Diaferio *Probing modified Newtonian dynamics with hypervelocity stars*, **Astron.Astrophys**. 657 (2022) A115, May 2021

A. Jimenez-Gallardo, F. Massaro, B. Balmaverde, A. Paggi, A. Capetti, W. R. Forman, R. P. Kraft, R. D. Baldi, V. H. Mahatma, C. Mazzucchelli, V. Missaglia, F. Ricci, G. Venturi, S. A. Bam, E. Liuzzo, C. P. O'Dea, M. A. Prieto, H. J. A. Röttgering, E. Sani, W. B. Sparks, G. R. Tremblay, R. J. van Weeren, B. J. Wilkes, J. J. Harwood, P. Mazzotta, J. Kuraszkiewicz*, Raining in MKW 3s: a Chandra-MUSE analysis of X-ray cold filaments around 3CR 318.1*, **Astrophys.J.Lett.** 912 (2021) 2, L25, Apr 2021

Euclid Collaboration: A. Pocino, I. Tutusaus, F.J. Castander, P. Fosalba, M. Crocce, A. Porredon, S. Camera, V. Cardone, S. Casas, T. Kitching, F. Lacasa, M. Martinelli, A. Pourtsidou, Z. Sakr, S. Andreon, N. Auricchio, C. Baccigalupi, A. Balaguera-Antolínez, M. Baldi, A. Balestra, S. Bardelli, R. Bender, A. Biviano, C. Bodendorf, D. Bonino, A. Boucaud, E. Bozzo, E. Branchini, M. Brescia, J. Brinchmann, C. Burigana, R. Cabanac, V. Capobianco, A. Cappi, C.S. Carvalho, M. Castellano, G. Castignani, S. Cavuoti, A. Cimatti, R. Cledassou, C. Colodro-Conde, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, A. Costille, J. Coupon, H.M. Courtois, M. Cropper, J.-G. Cuby, A. Da Silva, S. de la Torre, D. Di Ferdinando, F. Dubath, C. Duncan, X. Dupac, S. Dusini, S. Farrens, P.G. Ferreira, I. Ferrero, F. Finelli, S. Fotopoulou, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, G. Gozaliasl, J. Graciá-Carpio, F. Grupp, L. Guzzo, W. Holmes, F. Hormuth, K. Jahnke, E. Keihanen, S. Kermiche, A. Kiessling, C.C. Kirkpatrick, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, D. Maino, E. Maiorano, O. Mansutti, O. Marggraf, N. Martinet, F. Marulli, R. Massey, S. Maurogordato, E. Medinaceli, S. Mei, M. Meneghetti, R.Benton Metcalf, G. Meylan , M. Moresco, B. Morin, L. Moscardini, E. Munari, R. Nakajima, C. Neissner, R.C. Nichol, S. Niemi, J. Nightingale, C. Padilla, S. Paltani, F. Pasian, L. Patrizii, K. Pedersen, W.J. Percival, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, D. Potter, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, A.G. Sánchez, D. Sapone, R. Scaramella, P. Schneider, V. Scottez, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, F. Sureau, A.N. Taylor, M. Tenti, I. Tereno, R. Teyssier, R. Toledo-Moreo, A. Tramacere, E.A. Valentijn, L. Valenziano, J. Valiviita, T. Vassallo, M. Viel, Y. Wang, N. Welikala, L. Whittaker, A. Zacchei, G. Zamorani, J. Zoubian, E. Zucca*, Euclid preparation: XII. Optimizing the photometric sample of the Euclid survey for galaxy clustering and galaxy-galaxy lensing analyses*, **Astron.Astrophys.** 655 (2021) A44, Apr 2021

Harold A. Peña-Herazo, Francesco Massaro, Minfeng Gu, Alessandro Paggi, Marco Landoni, Raffaele D'Abrusco, Federica Ricci, Nicola Masetti, Vahram Chavushyan, *An optical overview of blazars with LAMOST I: Hunting changing-look blazars and new redshift estimates*, **Astron.J.** 161 (2021) 4, 196, Mar 2021

Michael Korsmeier, Alessandro Cuoco, Implications of Lithium to Oxygen AMS-02 spectra on our understanding of cosmic-ray diffusion, **Phys.Rev.D** 103 (2021) 10, 103016, Mar 2021

G. Bruni, M. Brienza, F. Panessa, L. Bassani, D. Dallacasa, T. Venturi, R. D. Baldi, A. Botteon, A. Drabent, A. Malizia, F. Massaro, H. J. A. Röttgering, P. Ubertini, F. Ursini, R. J. van Weeren*, Hard X-ray selected giant radio galaxies -- III. The LOFAR view*, **Mon.Not.Roy.Astron.Soc**. 503 (2021) 4, 4681-4699, Mar 2021

Francesca Calore, Fiorenza Donato, Silvia Manconi, *Dissecting the inner Galaxy with γ-ray pixel count statistics,* **Phys.Rev.Lett.** 127 (2021) 16, 161102, Feb 2021

Obinna Umeh, Roy Maartens, Hamsa Padmanabhan, Stefano Camera*, The effect of finite halo size on the clustering of neutral hydrogen*, **JCAP** 06 (2021) 027, Feb 2021

Tessa Vernstrom, George Heald, Franco Vazza, Tim Galvin, Jennifer West, Nicola Locatelli, Nicolao Fornengo, Elena Pinetti, *Discovery of Magnetic Fields Along Stacked Cosmic Filaments as Revealed by Radio and X-Ray Emission*, **Mon.Not.Roy.Astron.Soc**. 505 (2021) 3, 4178-4196, Feb 2021

Euclid Collaboration: O. Ilbert, S. de la Torre, N. Martinet, A.H. Wright, S. Paltani, C. Laigle, I. Davidzon, E. Jullo, H. Hildebrandt, D.C. Masters, A. Amara, C.J. Conselice, S. Andreon, N. Auricchio, R. Azzollini, C. Baccigalupi, A. Balaguera-Antolínez, M. Baldi, A. Balestra, S. Bardelli, R. Bender, A. Biviano, C. Bodendorf, D. Bonino, S. Borgani, A. Boucaud, E. Bozzo, E. Branchini, M. Brescia, C. Burigana, R. Cabanac, S. Camera, V. Capobianco, A. Cappi, C. Carbone, J. Carretero, C.S. Carvalho, S. Casas, F.J. Castander, M. Castellano, G. Castignani, S. Cavuoti, A. Cimatti, R. Cledassou, C. Colodro-Conde, G. Congedo, L. Conversi, Y. Copin, L. Corcione, A. Costille, J. Coupon, H.M. Courtois, M. Cropper, J. Cuby, A. Da Silva, H. Degaudenzi, D. Di Ferdinando, F. Dubath, C. Duncan, X. Dupac, S. Dusini, A. Ealet, M. Fabricius, S. Farrens, P.G. Ferreira, F. Finelli, P. Fosalba, S. Fotopoulou, E. Franceschi, P. Franzetti, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, G. Gozaliasl, J. Graciá-Carpio, F. Grupp, L. Guzzo, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, E. Keihanen, S. Kermiche, A. Kiessling, C.C. Kirkpatrick, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, D. Maino, E. Maiorano, O. Marggraf, K. Markovic, F. Marulli, R. Massey, M. Maturi , N. Mauri, S. Maurogordato, H. J. McCracken, E. Medinaceli, S. Mei, R.Benton Metcalf, M. Moresco, B. Morin, L. Moscardini, E. Munari, R. Nakajima, C. Neissner, S. Niemi, J. Nightingale, C. Padilla, F. Pasian, L. Patrizii, K. Pedersen, R. Pello, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, D. Potter, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, E. Rossetti, R. Saglia, A.G. Sánchez, D. Sapone, P. Schneider, T. Schrabback, V. Scottez, A. Secroun, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, F. Sureau, P. Tallada Crespí, M. Tenti, H. I. Teplitz, I. Tereno, R. Toledo-Moreo, F. Torradeflot, A. Tramacere, E.A. Valentijn, L. Valenziano, J. Valiviita, T. Vassallo, Y. Wang, N. Welikala, J. Weller, L. Whittaker, A. Zacchei, G. Zamorani, J. Zoubian, E. Zucca*, Euclid preparation: XI. Mean redshift determination from galaxy redshift probabilities for cosmic shear tomography*, **Astron.Astrophys**. 647 (2021) A117, Feb 2021

Andrea Caputo, Andrea Vittino, Nicolao Fornengo, Marco Regis, Marco Taoso, *Searching for axion-like particle decay in the near-infrared background: an updated analysi*s, **JCAP** 05 (2021) 046, Dec 2020

Mattia Di Mauro, Silvia Manconi, Michela Negro, Fiorenza Donato*, Investigating γ-ray halos around three HAWC bright sources in Fermi-LAT data*, **Phys.Rev.D** 104 (2021) 10, 103002, Dec 2020

Euclid Collaboration: P.L. Taylor, T. Kitching, V.F. Cardone, A. Ferté, E.M. Huff, F. Bernardeau, J. Rhodes, A.C. Deshpande, I. Tutusaus, A. Pourtsidou, S. Camera, C. Carbone, S. Casas, M. Martinelli, V. Pettorino, Z. Sakr, D. Sapone, V. Yankelevich, N. Auricchio, A. Balestra, C. Bodendorf, D. Bonino, A. Boucaud, E. Branchini, M. Brescia, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, L. Conversi, L. Corcione, M. Cropper, E. Franceschi, B. Garilli, B. Gillis, C. Giocoli, L. Guzzo, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, M.

Kilbinger, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Marggraf, K. Markovic, R. Massey, E. Medinaceli, S. Mei, M. Meneghetti, G. Meylan, M. Moresco, B. Morin, L. Moscardini, S. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, W.J. Percival, S. Pires, G. Polenta, M. Poncet, L. Popa, F. Raison, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A. Secrou, G. Seidel, S. Serrano, C. Sirignano, G. Sirri, F. Sureau, P. Tallada Crespí, D. Tavagnacco, A.N. Taylor, H.I. Teplitz, I. Tereno, R. Toledo-Moreo, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, J. Weller, A. Zacchei, J. Zoubian, *Euclid: Forecasts for k-cut 3×2 Point Statistics*, **Open J.Astrophys**. 4 (2021) 1, 6, Dec 2020

Anna Wojtowicz, Lukasz Stawarz, Jerzy Machalski, Luisa Ostorero, *A Novel Method for Estimating the Ambient Medium Density Around Distant Radio Sources from Their Observed Radio Spectra*, **Astrophys.J**. 922 (2021) 2, 197, Nov 2020

Alice Bonino, Stefano Camera, Lorenzo Fatibene, Andrea Orizzonte, *Solar System Tests in Brans-Dicke and Palatini f(R)-theories*, **Eur.Phys.J.Plus** 135 (2020) 12, 951, Nov 2020

A. Jimenez-Gallardo, F. Massaro, A. Paggi, R. D'Abrusco, M.A. Prieto, Harold A. Peña-Herazo, Vittoria Berta, Federica Ricci, Chiara Stuardi, Belinda J. Wilkes, Christopher P. O'Dea, Stefi A. Baum, Ralph P. Kraft, William R. Froman, Christine Jones, Beatriz Mingo, Elisabetta Liuzzo, Barbara Balmaverde, Alessandro Capetti, Valentina Missaglia, Martin J. Hardcastle, Ranieri D. Baldi, Leah K. Morabito, *Extended X-Ray Emission around FR II Radio Galaxies: Hot Spots, Lobes, and Galaxy Clusters*, **Astrophys.J.Suppl**. 252 (2021) 2, 31, Nov 2020

Mattia Di Mauro, Fiorenza Donato, Silvia Manconi, *Novel interpretation of the latest AMS-02 cosmic-ray electron spectrum*, **Phys.Rev.D** 104 (2021) 8, 083012, Nov 2020

Euclid Collaboration: M. Martinelli, I. Tutusaus, M. Archidiacono, S. Camera, V.F. Cardone, S. Clesse, S. Casas, L. Casarini, D. F. Mota, H. Hoekstra, C. Carbone, S. Ilić, T.D. Kitching, V. Pettorino, A. Pourtsidou, Z. Sakr, D. Sapone, N. Auricchio, A. Balestra, A. Boucaud, E. Branchini, M. Brescia, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, A. Cimatti, R. Cledassou, G. Congedo, C. Conselice, L. Conversi, L. Corcione, A. Costille, M. Douspis, F. Dubath, S. Dusini, G. Fabbian, P. Fosalba, M. Frailis, E. Franceschi, B. Gillis, C. Giocoli, F. Grupp, L. Guzzo, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, A. Kiessling, M. Kilbinger, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, K. Markovic, R. Massey, M. Meneghetti, G. Meylan, B. Morin, L. Moscardini, S. Niemi, C. Padilla, S. Paltani, F. Pasian, K. Pedersen, S. Pires, G. Polenta, M. Poncet, L. Popa, F. Raison, J. Rhodes, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, J.-L. Starck, F. Sureau, A.N. Taylor, I. Tereno, R. Toledo-Moreo, E.A. Valentijn, L. Valenziano, T. Vassallo, Y. Wang, N. Welikala, A. Zacchei, J. Zoubian, *Euclid: impact of nonlinear prescriptions on cosmological parameter estimation from weak lensing cosmic shear*, **Astron.Astrophys.** 649 (2021) A100, Oct 2020

Euclid Collaboration: M. Knabenhans, J. Stadel, D. Potter, J. Dakin, S. Hannestad, T. Tram, S. Marelli, A. Schneider, R. Teyssier, S. Andreon, N. Auricchio, C. Baccigalupi, A. Balaguera-Antolínez, M. Baldi, S. Bardelli, P. Battaglia, R. Bender, A. Biviano, C. Bodendorf, E. Bozzo, E. Branchini, M. Brescia, C. Burigana, R. Cabanac, S. Camera, V. Capobianco, A. Cappi, C. Carbone, J. Carretero, C.S. Carvalho, R. Casas, S. Casas, M. Castellano, G. Castignani, S. Cavuoti, R. Cledassou, C. Colodro-Conde, G. Congedo, C.J. Conselice, L. Conversi, Y. Copin, L. Corcione, J. Coupon, H.M. Courtois, A. Da Silva, S. de la Torre, D. Di Ferdinando, C.A.J. Duncan, X. Dupac, G. Fabbian, S. Farrens, P.G. Ferreira, F. Finelli, M. Frailis, E. Franceschi, S. Galeotta, B. Garilli, C. Giocoli, G. Gozaliasl, J. Graciá-Carpio, F. Grupp, L.

Guzzo, W. Holmes, F. Hormuth, H. Israel, K. Jahnke, E. Keihanen, S. Kermiche, C. C. Kirkpatrick, B. Kubik, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, D. Maino, O. Marggraf, K. Markovic, N. Martinet, F. Marulli, R. Massey, N. Mauri, S. Maurogordato, E. Medinaceli, M. Meneghetti, B. Metcalf, G. Meylan, M. Moresco, B. Morin, L. Moscardini, E. Munari, C. Neissner, S.M. Niemi, C. Padilla, S. Paltani, F. Pasian, L. Patrizii, V. Pettorino, S. Pires , G. Polenta, M. Poncet, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Romelli, M. Roncarelli, R. Saglia, A.G. Sánchez, D. Sapone, P. Schneider, V. Scottez, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, F. Sureau, P. Tallada Crespí, A.N. Taylor, M. Tenti, I. Tereno, R. Toledo-Moreo, F. Torradeflot, L. Valenziano, J. Valiviita, T. Vassallo, M. Viel, Y. Wang, N. Welikala, L. Whittaker, A. Zacchei, E. Zucca, *Euclid preparation: IX. EuclidEmulator2 -- Power spectrum emulation with massive neutrinos and self-consistent dark energy perturbations,* **Mon.Not.Roy.Astron.Soc**. 505 (2021) 2, 2840-2869, Oct 2020

Dionysios Karagiannis, José Fonseca, Roy Maartens, Stefano Camera, *Probing primordial non-Gaussianity with the power spectrum and bispectrum of future 21 cm intensity maps*, **Phys.Dark Univ.** 32 (2021) 100821, Oct 2020

Maria Benito, Fabio Iocco, Alessandro Cuoco*, Uncertainties in the Galactic dark matter distribution: an update***, Phys.Dark Univ**. 32 (2021) 100826, Oct 2020

Euclid Collaboration: G. Desprez, S. Paltani, J. Coupon, I. Almosallam, A. Alvarez-Ayllon, V. Amaro, M. Brescia, M. Brodwin, S. Cavuoti, J. De Vicente-Albendea, S. Fotopoulou, P. W. Hatfield, W. G. Hartley, O. Ilbert, M. J. Jarvis, G. Longo, R. Saha, J. S. Speagle, A. Tramacere, M. Castellano, F. Dubath, A. Galametz, M. Kuemmel, C. Laigle, E. Merlin, J. J. Mohr, S. Pilo, M. Salvato, M. M. Rau, S. Andreon, N. Auricchio, C. Baccigalupi, A. Balaguera-Antolínez, M. Baldi, S. Bardelli, R. Bender, A. Biviano, C. Bodendorf, D. Bonino, E. Bozzo, E. Branchini, J. Brinchmann, C. Burigana, R. Cabanac, S. Camera, V. Capobianco, A. Cappi, C. Carbone, J. Carretero, C. S. Carvalho, R. Casas, S. Casas, F. J. Castander, G. Castignani, A. Cimatti, R. Cledassou, C. Colodro-Conde, G. Congedo, C. J. Conselice, L. Conversi, Y. Copin, L. Corcione, H. M. Courtois, J.-G. Cuby, A. Da Silva, S. de la Torre, H. Degaudenzi, D. Di Ferdinando, M. Douspis, C. A. J. Duncan, X. Dupac, A. Ealet, G. Fabbian, M. Fabricius, S. Farrens, P. G. Ferreira, F. Finelli, P. Fosalba, N. Fourmanoit, M. Frailis, E. Franceschi, M. Fumana, S. Galeotta, B. Garilli, W. Gillard, B. Gillis, C. Giocoli, G. Gozaliasl, J. Graciá-Carpio, F. Grupp, L. Guzzo, M. Hailey, S. V. H. Haugan, W. Holmes, F. Hormuth, A. Humphrey, K. Jahnke, E. Keihanen, S. Kermiche , M. Kilbinger, C. C. Kirkpatrick, T. D. Kitching, R. Kohley, B. Kubik, M. Kunz, H. Kurki-Suonio, S. Ligori, P. B. Lilje, I. Lloro, D. Maino, E. Maiorano, O. Marggraf, K. Markovic, N. Martinet, F. Marulli, R. Massey, M. Maturi, N. Mauri, S. Maurogordato, E. Medinaceli, S. Mei, M. Meneghetti, R. Benton Metcalf, G. Meylan, M. Moresco, L. Moscardini, E. Munari, S. Niemi, C. Padilla, F. Pasian, L. Patrizii, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, D. Potter, L. Pozzetti, F. Raison, A. Renzi, J. Rhodes, G. Riccio, E. Rossetti, R. Saglia, D. Sapone, P. Schneider, V. Scottez, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, L. Stanco, D. Stern, F. Sureau, P. Tallada Crespí, D. Tavagnacco, A. N. Taylor, M. Tenti, I. Tereno, R. Toledo-Moreo, F. Torradeflot, L. Valenziano, J. Valiviita, T. Vassallo, M. Viel, Y. Wang, N. Welikala, L. Whittaker, A. Zacchei, G. Zamorani, J. Zoubian, E. Zucca, *Euclid preparation: X. The Euclid photometric-redshift challenge***, Astron.Astrophys**. 644 (2020) A31, Sept 2020

Guglielmo Faggioli, Konstantinos Tanidis, Stefano Camera, *Towards simulating a realistic data analysis with an optimised angular power spectrum of spectroscopic galaxy surveys*, **arXiv:2009.08473**, Sep 2020

H.A. Peña-Herazo, R.A. Amaya-Almazán, F. Massaro, R. de Menezes, E.J. Marchesini, , V. Chavushyan, A. Paggi), M. Landoni, F. Ricci, N. Masetti , R. D'Abrusco, C. C. Cheung, F. La Franca, H. A. Smith, D. Milisavljevic, E. Jiménez-Bailón, V. M. Patiño-Álvarez, G. Tosti*, Optical spectroscopic observations of low-energy counterparts of Fermi-LAT γ-ray source*s, **Astron.Astrophys**. 643 (2020) A103, Sep 2020

Sheean Jolicoeur, Roy Maartens, Eline M. De Weerd, Obinna Umeh, Chris Clarkson, Stefano Camera, *Detecting the relativistic bispectrum in 21cm intensity maps*, **JCAP** 06 (2021) 039, Sep 2020

Konstantinos Tanidis, Stefano Camera*, Developing a unified pipeline for large-scale structure data analysis with angular power spectra – III. Implementing the multitracer technique to constrain neutrino masses*, **Mon.Not.Roy.Astron.Soc**. 502 (2021) 2, 2952-2960, Sep 2020

F. Massaro, A. Capetti, A. Paggi, R.D. Baldi, A. Tramacere I. Pillitteri, R. Campana, *Dragon's Lair: On the Large-scale Environment of BL Lac Objects*, **Astrophys.J.Lett.** 900 (2020) 2, L34, Sep 2020

Alessandro Capetti, Francesco Massaro, Ranieri D. Baldi*, The large-scale environment of FR 0 radio galaxies*, **Astron.Astrophys**. 633 (2020) A161, Sep 2020

Marco Regis, Marco Taoso, Daniel Vaz, Jarle Brinchmann, Sebastiaan L. Zoutendijk, Nicolas F. Bouché, Matthias Steinmetz, *Searching for Light in the Darkness: Bounds on ALP Dark Matter with the optical MUSE-Faint survey*, **Phys.Lett.B** 814 (2021) 136075, Sept 2020

Francesco Montanari, Stefano Camera, *Speeding up the detectability of the harmonic-space galaxy bispectrum*, **JCAP** 01 (2021) 002, Aug 2020

Euclid Collaboration: M. Martinelli, C.J.A.P. Martins, S. Nesseris, D. Sapone, I. Tutusaus, A. Avgoustidis, S. Camera, C. Carbone, S. Casas, S. Ilić, Z. Sakr, V. Yankelevich, N. Auricchio, A. Balestra, C. Bodendorf, D. Bonino, E. Branchini, M. Brescia, J. Brinchmann, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, L. Conversi, L. Corcione, F. Dubath, A. Ealet, M. Frailis, E. Franceschi, M. Fumana, B. Garilli, B. Gillis, C. Giocoli, F. Grupp, S.V.H. Haugan, W. Holmes, F. Hormuth, K. Jahnke, S. Kermiche, M. Kilbinger, T.D. Kitching, B. Kubik, M. Kunz, H. Kurki-Suonio, S. Ligori, P.B. Lilje, I. Lloro, O. Marggraf, K. Markovic, R. Massey, S. Mei, M. Meneghetti, G. Meylan, L. Moscardini, S. Niemi, C. Padilla, S. Paltani, F. Pasian, V. Pettorino, S. Pires, G. Polenta, M. Poncet, L. Popa, L. Pozzetti, F. Raison, J. Rhodes, M. Roncarelli, R. Saglia, P. Schneider, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, F. Sureau, A.N. Taylor, I. Tereno, R. Toledo-Moreo, L. Valenziano, T. Vassallo, Y. Wang, N. Welikala, J. Weller, A. Zacchei*, Euclid: Forecast constraints on the cosmic distance duality relation with complementary external probes*, **Astron.Astrophys.** 644 (2020) A80, Lug 2020

Ivan de Martino, Sankha S. Chakrabarty, Valentina Cesare, Arianna Gallo, Luisa Ostorero, Antonaldo Diaferio, *Dark matters on the scale of galaxies*, **Universe** 6 (2020) 8, 107, , Lug 2020

Steven Cunnington, Stefano Camera, Alkistis Pourtsidou*, The degeneracy between primordial non-Gaussianity and foregrounds in 21 cm intensity mapping experiments***, Mon.Not.Roy.Astron.Soc**. 499 (2020) 3, 4054-4067, Jul 2020

Marco Cirelli, Nicolao Fornengo, Bradley J. Kavanagh, Elena Pinetti*, Integral X-ray constraints on sub-GeV Dark Matter*, **Phys.Rev.D** 103 (2021) 6, 063022, Jul 2020

Euclid Collaboration: V.Guglielmo, R.Saglia, F.J.Castander, A.Galametz, S.Paltani, R.Bender, M.Bolzonella, P.Capak, O.Ilbert, D.C.Masters, D.Stern, S.Andreon, N.Auricchio, A.Balaguera-Antolínez, M.Baldi, S.Bardelli, A.Biviano, C.Bodendorf, D.Bonino, E.Bozzo, E.Branchini, S.Brau-Nogue, M.Brescia, C.Burigana, R.A.Cabanac, S.Camera, V.Capobianco, A.Cappi, C.Carbone, J.Carretero, C.S.Carvalho, R.Casas, S.Casas, M.Castellano, G.Castignani, S.Cavuoti, A.Cimatti, R.Cledassou, C.Colodro-Conde, G.Congedo, C.J.Conselice, L.Conversi, Y.Copin, L.Corcione, A.Costille, J.Coupon, H.M.Courtois, M.Cropper, A.Da Silva, S.de la Torre, D.Di Ferdinando, F.Dubath, C.A.J.Duncan, X.Dupac, S.Dusini, M.Fabricius, S.Farrens, P.G.Ferreira, S.Fotopoulou, M.Frailis, E.Franceschi, M.Fumana, S.Galeotta, B.Garilli, B.Gillis, C.Giocoli, G.Gozaliasl, J.Graciá-Carpio, F.Grupp, L.Guzzo, H.Hildebrandt, H.Hoekstra, F.Hormuth, H.Israel, K.Jahnke, E.Keihanen, S.Kermiche, M.Kilbinger, C.C.Kirkpatrick, T.Kitching, B.Kubik, M.Kunz, H.Kurki-Suonio, R.Laureijs, S.Ligori, P.B.Lilje, I.Lloro, D.Maino, E.Maiorano, C.Maraston, O.Marggraf, N.Martinet, F.Marulli, R.Massey, S.Maurogordato, E.Medinaceli, S.Mei, M.Meneghetti, R.Benton Metcalf , G.Meylan, M.Moresco, L.Moscardini, E.Munari, R.Nakajima, C.Neissner, S.Niemi, A.A.Nucita, C.Padilla, F.Pasian, L.Patrizii, A.Pocino, M.Poncet, L.Pozzetti, F.Raison, A.Renzi, J.Rhodes, G.Riccio, E.Romelli, M.Roncarelli, E.Rossetti, A.G.Sanchez, D.Sapone, P.Schneider, V.Scottez, A.Secroun, S.Serrano, C.Sirignano, G.Sirri, F.Sureau, P.Tallada-Crespi, D.Tavagnacco, A.N.Taylor, M.Tenti, I.Tereno, R.Toledo-Moreo, F.Torradeflot, A.Tramacere, L.Valenziano, T.Vassallo, Y.Wang, N.Welikala, M.Wetzstein, L.Whittaker, A.Zacchei, G.Zamorani, J.Zoubian, E. Zucca, *Euclid preparation: VIII. The Complete Calibration of the Colour-Redshift Relation survey: VLT/KMOS observations and data release*, **Astron.Astrophys**. 642 (2020) A192, Jul 2020

A. Jimenez-Gallardo, F. Massaro, M. A. Prieto, V. Missaglia, C. Stuardi, A. Paggi, F. Ricci, R. P. Kraft, E. Liuzzo, G. R. Tremblay, S. A. Baum, C. P. O'Dea, B. J. Wilkes, J. Kuraszkiewicz, W. R. Forman, D. E. Harris, *The Chandra 3CR extragalactic survey at high redshift***, arXiv:2007.02945**, Jul 2020

S. Yahia-Cherif, A. Blanchard, S. Camera, S. Ilić, K. Markovič, A. Pourtsidou, Z. Sakr, D. Sapone, I. Tutusaus, *Validating the Fisher approach for stage IV spectroscopic surveys,* **Astron.Astrophys.** 649 (2021) A52, Jul 2020

Jubee Sohn, Daniel G. Fabricant, Margaret J. Geller, Ho Seong Hwang, Antonaldo Diaferio, *The Velocity Dispersion Function for Quiescent Galaxies in Nine Strong-Lensing Clusters*, **Astrophys.J.** 902 (2020) 1, 17 , Jul 2020

M. N. Mazziotta, F. Loparco, D. Serini, A. Cuoco, P. De La Torre Luque, F. Gargano, M. Gustafsson, *Search for dark matter signatures in the gamma-ray emission towards the Sun with the Fermi Large Area Telescope***, Phys.Rev.D** 102 (2020) 2, 022003, Jun 2020

George Heald, Sui Ann Mao, Valentina Vacca, Takuya Akahori, Ancor Damas-Segovia, B. M. Gaensler, Matthias Hoeft, Ivan Agudo, Aritra Basu, Rainer Beck, Mark Birkinshaw, Annalisa Bonafede, Tyler L.

Bourke, Andrea Bracco, Ettore Carretti, Luigina Feretti, J. M. Girart, Federica Govoni, James A. Green, JinLin Han, Marijke Haverkorn, Cathy Horellou, Melanie Johnston-Hollitt, Roland Kothes, Tom Landecker, Blazej Nikiel-Wroczynski, Shane P. O'Sullivan, Marco Padovani, Frederick Poidevin, Luke Pratley, Marco Regis, Christopher John Riseley, Tim Robishaw, Lawrence Rudnick, Charlotte Sobey, Jeroen M. Stil, Xiaohui Sun, Sharanya Sur, A. Russ Taylor, Alec Thomson, Cameron L. Van Eck, Franco Vazza, Jennifer L. West, the SKA Magnetism Science Working Group, *Magnetism Science with the Square Kilometre Array*, **Galaxies** 8 (2020) 3, 53, Jun 2020

E. J. Marchesini, A. Paggi, F. Massaro, N. Masetti, R. D'Abrusco, I. Andruchow*, The γ-ray sky seen at X-ray energies II: the Swift hunt of Fermi BL Lac objects among unidentified gamma-ray sources*, ***Astron.Astrophys****.* 638 (2020) A128, Jun 2020

Alistair O. Hodson, Antonaldo Diaferio, Luisa Ostorero, *Distribution of Phantom Dark Matter in Dwarf Spheroidals***, Astron.Astrophys**. 640 (2020) A26, May 2020

M. Pizzardo, S. Di Gioia, A. Diaferio, C. De Boni, A. L. Serra, M. J. Geller, J. Sohn, K. Rines, M. Baldi, *Mass accretion rates of clusters of galaxies: CIRS and HeCS*, **Astron.Astrophys**. 646 (2021) A105, May 2020

Federico R. Urban, Stefano Camera, David Alonso, *Detecting ultra-high energy cosmic ray anisotropies through cross-correlations*, **Astron.Astrophys**. 652 (2021) A41, May 2020

Euclid Collaboration: I. Tutusaus, M. Martinelli, V.F. Cardone, S. Camera, S. Yahia-Cherif, S. Casas, A. Blanchard, M. Kilbinger, F. Lacasa, Z. Sakr, S. Ilić, M. Kunz, C. Carbone, F.J. Castander, F. Dournac, P. Fosalba, T. Kitching, K. Markovic, A. Mangilli, V. Pettorino, D. Sapone, V. Yankelevich, N. Auricchio, R. Bender, D. Bonino, A. Boucaud, M. Brescia, V. Capobianco, J. Carretero, M. Castellano, S. Cavuoti, R. Cledassou, G. Congedo, L. Conversi, L. Corcione, A. Costille, M. Cropper, F. Dubath, S. Dusini, G. Fabbian, M. Frailis, E. Franceschi, B. Garilli, F. Grupp, L. Guzzo, H. Hoekstra, F. Hormuth, H. Israel, K. Jahnke, S. Kermiche, B. Kubik, R. Laureijs, S. Ligori, P.B. Lilje, I. Lloro, E. Maiorano, O. Marggraf, R. Massey, S. Mei, E. Merlin, G. Meylan, L. Moscardini, P. Ntelis, C. Padilla, S. Paltani, F. Pasian, W.J. Percival, S. Pires, M. Poncet, F. Raison, J. Rhodes, M. Roncarelli, E. Rossetti, R. Saglia, P. Schneider, A. Secroun, S. Serrano, C. Sirignano, G. Sirri, J. Starck, F. Sureau, A.N. Taylor, I. Tereno, R. Toledo-Moreo, L. Valenziano, Y. Wang, N. Welikala, J. Weller, A. Zacchei, J. Zoubian, Euclid: *The importance of galaxy clustering and weak lensing cross-correlations within the photometric Euclid survey*, **Astron.Astrophys**. 643 (2020) A70, May 2020

Raniere de Menezes, Raffaele D'Abrusco, Francesco Massaro, Dario Gasparrini, Rodrigo Nemmen, *On the Physical Association of Fermi-LAT Blazars with Their Low-energy Counterparts*, **Astrophys.J.Suppl.** 248 (2020) 2, 23, Apr 2020

F. Massaro, A. Capetti, A. Paggi, R.D. Baldi, A. Tramacere, I. Pillitteri, R. Campana, A. Jimenez-Gallardo, V. Missaglia, *Deciphering the Large-Scale Environment of Radio Galaxies in the Local Universe II. A Statistical Analysis of Environmental Properties*, **Astrophys.J.Suppl**. 247 (2020) 2, 71, Apr 2020

H. A. Peña-Herazo, F. Massaro, V. Chavushyan, E. J. Marchesini, A. Paggi, M. Landoni, N. Masetti, F. Ricci, R. D'Abrusco, D. Milisavljevic, E. Jiménez-Bailón, F. La Franca, Howard A. Smith, G. Tosti,

Optical spectroscopic observations of gamma-ray blazar candidates. IX. Optical archival spectra and further observations from SOAR and OAGH, **Astrophys.Space Sci**. 364 85, Mar 2020

Valentina Cesare, Antonaldo Diaferio, Titos Matsakos, Garry Angus*, Dynamics of DiskMass Survey galaxies in refracted gravity*, **Astron.Astrophys**. 637 (2020) A70, Mar 2020
Ian Harrison, Michael L. Brown, Ben Tunbridge, Daniel B. Thomas, Tom Hillier, A. P. Thomson, Lee Whittaker, Filipe B. Abdalla, Richard A. Battye, Anna Bonaldi, Stefano Camera, Caitlin M. Casey, Constantinos Demetroullas, Christopher A. Hales, Neal J. Jackson, Scott T. Kay, Sinclaire M. Manning, Aaron Peters, Christopher J. Riseley, Robert A. Watson, *SuperCLASS -- III. Weak lensing from radio and optical observations in Data Release 1*, **Mon.Not.Roy.Astron.Soc**. 495 (2020) 2, 1737-1759, Mar 2020

E. Kosmaczewski, L. Stawarz, A. Siemiginowska, C.C. Cheung, L. Ostorero, M. Sobolewska, D. Koziel-Wierzbowska, A. Wojtowicz, V. Marchenko, *Mid-Infrared Diagnostics of the Circumnuclear Environments of the Youngest Radio Galaxies*, **arXiv:2002.12870**, Feb 2020

P. von Doetinchem, K. Perez, T. Aramaki, S. Baker, S. Barwick, R. Bird, M. Boezio, S.E. Boggs, M. Cui, A. Datta, F. Donato, C. Evoli, L. Fabris, L. Fabbietti, E. Ferronato Bueno, N. Fornengo, H. Fuke, C. Gerrity, D. Gomez Coral, C. Hailey, D. Hooper, M. Kachelriess, M. Korsmeier, M. Kozai, R. Lea, N. Li, A. Lowell, M. Manghisoni, I.V. Moskalenko, R. Munini, M. Naskret, T. Nelson, K.C.Y. Ng, F. Nozzoli, A. Oliva, R.A. Ong, G. Osteria, T. Pierog, V. Poulin, S. Profumo, T. Poeschl, S. Quinn, V.Re, F. Rogers, J. Ryan, N. Saffold, K. Sakai, P. Salati, S. Schael, L. Serksnyte, A. Shukla, A. Stoessl, J. Tjemsland, E. Vannuccini, M. Vecchi, M.W. Winkler, D. Wright, M. Xiao, W. Xu, T. Yoshida, G. Zampa, P. Zuccon, *Cosmic-ray Antinuclei as Messengers of New Physics: Status and Outlook for the New Decade*, **JCAP** 08 (2020) 035, Feb 2020

F. Calore, A. Cuoco, T. Regimbau, S. Sachdev, P. D. Serpico*, Cross-correlating galaxy catalogs and gravitational waves: a tomographic approach*, **Phys.Rev.Res.** 2 (2020) 023314, Feb 2020

Silvia Manconi, Mattia Di Mauro, Fiorenza Donato, *Contribution of pulsars to cosmic-ray positrons in light of recent observation of inverse-Compton halos*, **Phys.Rev.D** 102 (2020) 2, 023015, Jan 2020

Raniere de Menezes, Raul A. Amaya-Almazán, Ezequiel J. Marchesini, Harold A. Peña-Herazo, Francesco Massaro, Vahram Chavushyan, Alessandro Paggi, Marco Landoni, Nicola Masetti, Federica Ricci, Raffaele D'Abrusco, Fabio La Franca, Howard A. Smith, Daniel Milisavljevic, Gino Tosti, Elena Jiménez-Bailón, Teddy Cheung, *Optical spectroscopic observations of gamma-ray blazar candidates. X. Results from the 2018--2019 SOAR and OAN-SPM observations of blazar candidates of uncertain type*, **Astrophys.Space Sci**. 365 (2020) 1, 12, Mar 2020

José Fonseca, Stefano Camera, *High-redshift cosmology with oxygen lines from Hα surveys,* **Mon.Not.Roy.Astron.Soc.** 495 (2020) 1, 1340-1348, Jan 2020

A. Cuoco, P. De La Torre Luque, F. Gargano, M. Gustafsson, F. Loparco, M. N. Mazziotta, D. Serini, *A search for dark matter cosmic-ray electrons and positrons from the Sun with the Fermi Large Area Telescope*, **Phys.Rev.D** 101 (2020) 2, 022002, Dec 2019

Zahra Gomes, Stefano Camera, Matt J. Jarvis, Catherine Hale, José Fonseca, *Non-Gaussianity constraints using future radio continuum surveys and the multitracer technique*, **Mon.Not.Roy.Astron.Soc.** 492 (2020) 1, 1513-1522, Dec 2019

PUBLICATIONS OF WP3

Reale E, Taverna D, Cantini L, Martignetti L, Osella M, De Pittà C, Virga F, Orso F, Caselle M. *Investigating the epi-miRNome: identification of epi-miRNAs using transfection experiments*. **Epigenomics**. 2019 Nov;11(14):1581-1599. Epub 2019 Nov 6. PubMed PMID: 31693439.

Cantini L, Bertoli G, Cava C, Dubois T, Zinovyev A, Caselle M, Castiglioni I, Barillot E, Martignetti L. *Identification of microRNA clusters cooperatively acting on epithelial to mesenchymal transition in triple negative breast cancer.* **Nucleic Acids Res.** 2019 Mar 18;47(5):2205-2215. PubMed PMID: 30657980; PubMed Central PMCID: PMC6412120.

Greco A, Sanchez Valle J, Pancaldi V, Baudot A, Barillot E, Caselle M, Valencia A, Zinovyev A, Cantini L. *Molecular Inverse Comorbidity between Alzheimer's Disease and Lung Cancer: New Insights from Matrix Factorization*. **Int. J. Mol. Sci.** 2019 Jun 26;20(13). pii: E3114. PubMed PMID: 31247897; PubMed Central PMCID: PMC6650839.

Cantini L, Caselle M. *Hope4Genes: a Hopfield-like class prediction algorithm for transcriptomic data*. **Sci. Rep**. 2019 Jan 23;9(1):337. PubMed PMID: 30674955; PubMed Central PMCID: PMC6344502.

Lauria A, Peirone S, Giudice MD, Priante F, Rajan P, Caselle M, Oliviero S, Cereda M. *Identification of altered biological processes in heterogeneous RNA-sequencing data by discretization of expression profiles*. **Nucleic Acids Res.** 2019 Dec 31

Furlan M, Galeota E, de Pretis S, Caselle M, Pelizzola M. *m6A-Dependent RNA Dynamics in T Cell Differentiation*. **Genes** (Basel). 2019 Jan 8;10(1). pii: E28. PubMed PMID: 30626100; PubMed Central PMCID: PMC6356486.

Andrea Mazzolini, Marco Gherardi, Michele Caselle, Marco Cosentino Lagomarsino and Matteo Osella, *Statistics of Shared Components in Complex Component Systems* **Phys. Rev. X** 8, 021023 (2018)

Andrea Mazzolini, Alberto Colliva, Michele Caselle, Matteo Osella, *Heaps' law, statistics of shared components and temporal patterns from a sample-space-reducing process*, **Phys. Rev. E** 98, 052139 (2018).

A Mazzolini, J Grilli, E De Lazzari, M Osella, MC Lagomarsino, M Gherardi, *Zipf and Heaps laws from dependency structures in component systems*, **Physical Review E** 98 (1), 012315

G Micali, J Grilli, M Osella, MC Lagomarsino, *Concurrent processes set E. coli cell division*, **Science advances** 4 (11), eaau3324

G Micali, J Grilli, J Marchi, M Osella, MC Lagomarsino, *Dissecting the control mechanisms for DNA replication and cell division in E. coli*, **Cell reports** 25 (3), 761-771. e4

J Grilli, C Cadart, G Micali, M Osella, M Cosentino Lagomarsino, *The empirical fluctuation pattern of E. coli division control*, **Frontiers in Microbiology** 9, 1541

F. Toselli, F. De Lillo, M. Onorato, Guido Boffetta, *Measuring surface gravity waves using a Kinect sensor*, **EJMB** 74, 260, 2019.

L. Biferale, G. Boffetta, A. A. Mailybaev and A. Scagliarini, *Rayleigh-Taylor turbulence with singular nonuniform initial conditions*, **Phys. Rev. Fluids** 3, 092601(R), 2018.

G. Sardina, L. Brandt, G. Boffetta, and A. Mazzino, *Buoyancy-Driven Flow through a Bed of Solid Particles Produces a New Form of Rayleigh-Taylor Turbulence*, **Phys. Rev. Lett.** 121, 224501, 2018.

G. Boffetta, M. Magnani, S. Musacchio, *Suppression of Rayleigh-Taylor turbulence by time-periodic acceleration*, **Phys. Rev. E** 99, 033110, 2019.

F. Toselli, S. Musacchio and G. Boffetta, *Effects of rotation on the bulk turbulent convection*, **J. Fluid Mech.** 881, 648, 2019.

M. De Pietro, L. Biferale, G. Boffetta, M. Cencini, *Time irreversibility in reversible shell models of turbulence*, **EPJE** 41, 48, 2018.

S. Musacchio, G. Boffetta, *Condensate in quasi-two-dimensional turbulence*, **Phys. Rev. Fluids** 4, 022602, 2019.

M. Cencini, G. Boffetta, M. Borgnino, F. De Lillo, *Gyrotactic phytoplankton in laminar and turbulent flows: A dynamical systems approach***, EPJE** 42, 31, 2019.

M. Linkmann, G. Boffetta, M. C. Marchetti, B. Eckhardt, *Phase Transition to Large Scale Coherent Structures in Two-Dimensional Active Matter Turbulence*, **Phys. Rev. Lett.** 122, 214503, 2019.

M. Borgnino, K. Gustavsson, F. De Lillo, G. Boffetta, M. Cencini and B. Mehlig, *Alignment of Nonspherical Active Particles in Chaotic Flows*, **Phys. Rev. Lett.** 123, 138003, 2019.

M. Borgnino, J. Arrieta, G. Boffetta, F. De Lillo and I. Tuval, *Turbulence induces clustering and segregation of non-motile, buoyancy-regulating phytoplankton*, **J. Roy. Soc. Interface** 16, 20190324, 2019.

M. Borgnino, G. Boffetta, F. De Lillo and M. Cencini, *Gyrotactic swimmers in turbulence: shape effects and role of the large-scale flow*, **J. Fluid Mech.** 856, R1, 2018.

A. Sozza, F. De Lillo, G. Boffetta, *Inertial floaters in stratified turbulence*, **Europhys. Lett.** 121, 14002 2018.

A.D. Bragg, F. De Lillo, G. Boffetta, *Irreversibility inversions in two-dimensional turbulence*, **Phys. Rev. Fluids**, 3 024302, 2018.

A. Sozza, F. Piazza, M. Cencini, F. De Lillo, G. Boffetta, *Point-particle method to compute diffusion-limited cellular uptake***, Phys. Rev. E** 97, 023301, 2018.

Dematteis, G., Grafke, T., Onorato, M., & Vanden-Eijnden, E. (2019). *Experimental evidence of hydrodynamic instantons: the universal route to rogue waves*. **Phys. Rev. X**, 9(4), 041057.

Steer, J. N., Borthwick, A. G., Onorato, M., Chabchoub, A., & Van Den Bremer, T. S. (2019). *Hydrodynamic X waves*. **Phys. Rev. Lett.**, *123*(18), 184501.

Musser, S., Proment, D., Onorato, M., & Irvine, W. T. (2019). *Starting Flow Past an Airfoil and its Acquired Lift in a Superfluid*. **Phys. Rev. Lett.**, *123*(15), 154502.

Bustamante, M. D., Hutchinson, K., Lvov, Y. V., & Onorato, M. (2019). *Exact discrete resonances in the Fermi-Pasta-Ulam–Tsingou system*. **Communications in Nonlinear Science and Numerical Simulation**, *73*, 437-471.

Redor, I., Barthélemy, E., Michallet, H., Onorato, M., & Mordant, N. (2019). *Experimental evidence of a hydrodynamic soliton gas*. **Phys. Rev. Lett**., *122*(21), 214502.

Chabchoub, A., Mozumi, K., Hoffmann, N., Babanin, A. V., Toffoli, A., Steer, J. N., Onorato, M. & Waseda, T. (2019). *Directional soliton and breather beams*. **Proceedings of the National Academy of Sciences**, *116*(20), 9759-9763.

Cousins, W., Onorato, M., Chabchoub, A., & Sapsis, T. P. (2019). *Predicting ocean rogue waves from point measurements: An experimental study for unidirectional waves*. **Phys. Rev. E**, *99*(3), 032201.

Pistone, L., Onorato, M., & Chibbaro, S. (2018). *Thermalization in the discrete nonlinear Klein-Gordon chain in the wave-turbulence framework*. **EPL***, 121*(4), 44003.

Lvov, Y. V., & Onorato, M. (2018). *Double scaling in the relaxation time in the β-Fermi-Pasta-Ulam-Tsingou model*. **Phys. Rev. Lett**,, *120*(14), 144301.

El Koussaifi, R., Tikan, A., Toffoli, A., Randoux, S., Suret, P., & Onorato, M. (2018). *Spontaneous emergence of rogue waves in partially coherent waves: A quantitative experimental comparison between hydrodynamics and optics*. **Phys. Rev. E**, *97*(1), 012208.

European Patent
Inventors: M. Onorato, F. De Lillo, G. Boffetta, F. Toselli, F. Bosia, A. Krushynska, N. Pugno, M. Miniaci, *Multi-Directional and Multi-Frequency Attenuator of Waves*, Application N 19185446.2 – 1008 / 3594488 (2019) Status: Pending

M. Linkmann, M. C. Marchetti, G. Boffetta, B. Eckhardt, *Condensate formation and multiscale dynamics in two-dimensional active suspensions*, **Phys. Rev. E** 101, 022609, 2020.

G. Boffetta, M. Borgnino, S. Musacchio, *Scaling of Rayleigh-Taylor mixing in porous media*, **Phys. Rev. Fluids** 5, 062501(R) (2020).

A. Sozza, M. Cencini, S. Musacchio, G. Boffetta, *Drag enhancement in a dusty Kolmogorov flow*, **Phys. Rev. Fluids**, 5, 094302 (2020).

L. Puggioni, A. G. Kritsuk, S. Musacchio, G. Boffetta, *Conformal invariance of weakly compressible two-dimensional turbulence*, **Phys. Rev. E** 102, 023107 (2020).

A. Sozza, M. Cencini, F. De Lillo, G. Boffetta, *Scalar absorption by particles advected in a turbulent flow*, **Phys. Rev. Fluids** 5, 074303 (2020).

M. Magnani, S. Musacchio, G. Boffetta, *Inertial effects in dusty Rayleigh-Taylor turbulence*, **J. Fluid Mech.** 926, A23 (2021).

M. Borgnino, G. Boffetta, S. Musacchio, *Dimensional transition in Darcy-Rayleigh-Taylor mixing*, **Phys. Rev. Fluids** 6, 074501 (2021).

G. Boffetta , F. Toselli , M. Manfrin, S. Musacchio, *Cyclone-anticyclone asymmetry in rotating thin fluid layers*, **J. Turbulence** 22, 242 (2021).

L. Puggioni, G. Boffetta, S. Musacchio, *Giant vortex dynamics in confined bacterial turbulence*, **Phys. Rev. E** 106, 055103 (2022).

L. Puggioni, G. Boffetta, S. Musacchio, *Enhancement of drag and mixing in a dilute solution of rodlike polymers at low Reynolds numbers*, **Phys. Rev. Fluids** 7, 083301 (2022).

M. Borgnino, G. Boffetta, M. Cencini, F. De Lillo, K. Gustavsson, *Alignment of elongated swimmers in a laminar and turbulent Kolmogorov flow*, **Phys. Rev. Fluids** 7, 074603 (2022).

G. Boffetta, S. Musacchio, *Incompressible Rayleigh-Taylor mixing in circular and spherical geometries*, **Phys. Rev. E** 105, 025104 (2022).

G. Boffetta, S. Musacchio, *Dimensional effects in Rayleigh-Taylor mixing*, **Phil. Trans. R. Soc. A** 380, 20210084 (2022).

A. Sozza, M. Cencini, S. Musacchio, G. Boffetta, *Instability of a dusty Kolmogorov flow*, **J. Fluid Mech.** 931, A26 (2022).

L. Puggioni, G. Boffetta, S. Musacchio, *Flocking turbulence of microswimmers in confined domains*, **Phys. Rev. E** 107, 055107 (2023).

S. Berti, G. Boffetta, and S. Musacchio, *Mean flow and fluctuations in the three-dimensional turbulent cellular flow*, **Phys. Rev. Fluids** 8, 054601 (2023).

G. Boffetta, S. Musacchio, A. Mazzino, and M. E. Rosti, *Transient inverse energy cascade in free surface turbulence*, **Phys. Rev. Fluids** 8, 034601 (2023).

N.A.M. Araújo, L.M.C. Janssen, T. Barois, G. Boffetta, I. Cohen, A. Corbetta, O. Dauchot, M. Dijkstra, W.M. Durham, A. Dussutour, S. Garnier, H. Gelderblom, R. Golestanian, L. Isa, G.H. Koenderink, H. Löwen, R. Metzler, M. Polin, C.P. Royall, A. Šarić, A. Sengupta, C. Sykes, V. Trianni, I. Tuval, N. Vogel, J.M. Yeomans, I. Zuriguel, A. Marin, G. Volpe, *Steering self-organisation through confinement*, **Soft Matter** 19, 1695 (2023).

S. Musacchio, V. Steinberg, D. Vincenzi, *Polymer stretching in laminar and random flows: Entropic characterization*, **Phys. Rev. Fluids** 8, 053301 (2023).

F. Bosia, V.F. Dal Poggetto, A. Gliozzi, G, Greco, M. Lott, M. Miniaci, F. Ongaro, M. Onorato, S. Seyyedizadeh, M. Tortello, N. Pugno*, Optimized structures for vibration attenuation and sound control in nature: A review*, **Matter,** *5*(10), pp.3311-3340. (2022)

F. De Vita, G. Dematteis, R. Mazzilli, D. Proment, Y. Lvov, M. Onorato, *Anomalous conduction in one-dimensional particle lattices: Wave-turbulence approach*, **Physical Review E** 106 (3), 034110 (2022)

M. C. Hartmann, M. Onorato, F. De Vita, G. Clauss, S. Ehlers, F. von Bock und Polach, L. Schmitz, N. Hoffmann, M. Klein, *Hydroelastic potential flow solver suited for nonlinear wave dynamics in ice-covered waters,* **Ocean Engineering** 259, 111756 (2022)

A. Alberello, L. Bennetts, M. Onorato, M. Vichi, K. MacHutchon, C. Eayrs, B.N. Ntamba, A. Benetazzo, F. Bergamasco, F. Nelli and R. Pattani, R., *Three-dimensional imaging of waves and floes in the marginal ice zone during a cyclone*, **Nature Communications**, 13(1), p.4590 (2022)

M. Onorato, G. Dematteis, D. Proment, A. Pezzi, M. Ballarin, L Rondoni, *Equilibrium and nonequilibrium description of negative temperature states in a one-dimensional lattice using a wave kinetic approach*, **Physical Review E**, 105 (1), 014206 (2022)

M Onorato, L Cavaleri, S Randoux, P Suret, MI Ruiz, M de Alfonso, A. Benetazzo, *Observation of a giant nonlinear wave-packet on the surface of the ocean*, **Scientific Reports** 11 (1), 23606 (2021)

F. De Vita, F. De Lillo, R. Verzicco, M. Onorato, *A fully Eulerian solver for the simulation of multiphase flows with solid bodies: Application to surface gravity waves*, **Journal of computational physics** 438, 110355 (2021)

F. De Vita, F. De Lillo, F. Bosia, M. Onorato, *Attenuating surface gravity waves with mechanical metamaterials*, **Physics of Fluids** 33 (4), 047113 (2021)

A. Chabchoub, T. Waseda, M. Klein, S. Trillo, M Onorato, *Phase-suppressed hydrodynamics of solitons on constant-background plane wave*, **Physical Review Fluids** 5 (11), 114801 (2020)

M. Onorato, G. Dematteis, *A straightforward derivation of the four-wave kinetic equation in action-angle variables*, **Journal of Physics Communications** 4 (9), 095016 (2020)

E. Fadaeiazar, J. Leontini, M. Onorato, T. Waseda, A. Alberello, A. Toffoli, *Fourier amplitude distribution and intermittency in mechanically generated surface gravity waves*, **Physical Review E** 102 (1), 013106 (2020)

G. Dematteis, L. Rondoni, D. Proment, F De Vita, M Onorato, *Coexistence of Ballistic and Fourier Regimes in the Fermi-Pasta-Ulam-Tsingou Lattice*, **Physical Review Letters** 125 (2), 024101 (2020)

J. Zaleski, M. Onorato, Y.V. Lvov, *Anomalous Correlators in Nonlinear Dispersive Wave Systems,* **Physical Review X** 10 (2) 021043 (2020)

Lazzardi S, Valle F, Mazzolini A, Scialdone A, Caselle M, Osella M.
Emergent statistical laws in single-cell transcriptomic data.
Phys Rev E. 107 :044403 (2023)

Ruiz Tejada Segura ML, Abou Moussa E, Garabello E, Nakahara TS, Makhlouf M, Mathew LS, Wang L, Valle F, Huang SSY, Mainland JD, Caselle M, Osella M, Lorenz S, Reisert J, Logan DW, Malnic B, Scialdone A, Saraiva LR.
3D transcriptomics atlas of the mouse nose sheds light on the anatomical logic of smell.
Cell Rep. 38(12):110547. (2022)

Valle F, Osella M, Caselle M.
Multiomics Topic Modeling for Breast Cancer Classification.
Cancers (Basel) 14(5):1150. (2022)

Mottes F, Villa C, Osella M, Caselle M.
The impact of whole genome duplications on the human gene regulatory networks.
PLoS Comput Biol. 17(12):e1009638 (2021)

Bruni F, Giancaspero TA, Oreb M, Tolomeo M, Leone P, Boles E, Roberti M, Caselle M, Barile M.
Subcellular Localization of Fad1p in Saccharomyces cerevisiae: A Choice at Post-Transcriptional Level?
Life (Basel) 11(9):967. (2021)

Valle F, Osella M, Caselle M.
A Topic Modeling Analysis of TCGA Breast and Lung Cancer Transcriptomic Data.
Cancers (Basel). ;12(12):3799. (2020)

Riba A, Fumagalli MR, Caselle M, Osella M.
A Model-Driven Quantitative Analysis of Retrotransposon Distributions in the Human Genome.
Genome Biol Evol. 12(11):2045-2059. (2020)

Furlan M, Galeota E, Gaudio ND, Dassi E, Caselle M, de Pretis S, Pelizzola M.
Genome-wide dynamics of RNA synthesis, processing, and degradation without RNA metabolic labeling.
Genome Res. (10):1492-1507. (2020)

Calabrese L, Grilli J, Osella M, Kempes CP, Cosentino Lagomarsino M, Ciandrini L.
Protein degradation sets the fraction of active ribosomes at vanishing growth
PLoS Comput Biol. 18 (5), e1010059 (2022)

Biondo M, Panuzzo C, Ali SM, Bozzaro S, Osella M, Bracco E, Pergolizzi B.
The dynamics of aerotaxis in a simple eukaryotic model
Front Cell Dev Biol, 9, 720623 (2021)

Enrico Bena C, Del Giudice M, Grob A, Gueudré T, Miotto M, Gialama D, Osella M, Turco E, Ceroni F, De Martino A, Bosia C.
Initial cell density encodes proliferative potential in cancer cell populations.
Sci Rep 11, 6101 (2021)

Closing date: June 20, 2023