

Professional Publications

Paolo Padovani

Journal Papers

- J136. *High-energy neutrinos from the vicinity of the supermassive black hole in NGC 1068*, **P. Padovani**, E. Resconi, M. Ajello, C. Bellenghi, S. Bianchi, P. Blasi, K.-Y. Huang, S. Gabici, V. Gámez Rosas, H. Niederhausen, E. Peretti, B. Eichmann, D. Guetta, A. Lamastra, T. Shimizu, 2024, *Nature Astronomy*, 8, 1077
- J135. *The Spectra of IceCube Neutrino (SIN) Candidate Sources - V. Modeling and interpretation of multi-wavelength and neutrino data*, X. Rodrigues, M. Karl, **P. Padovani**, P. Giommi, S. Paiano, R. Falomo, M. Petropoulou, F. Oikonomou, 2024, *Astronomy & Astrophysics*, 689, A147
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- J133. *The Revised Third Cambridge Catalogue at 60: To Jet or Not to Jet ?*, P. Barthel, **P. Padovani**, 2024, *Galaxies* 2024, 12(1), 3
- J132. *The Extremely Large Telescope*, **P. Padovani**, M. Cirasuolo, 2023, *Contemporary Physics*, 64:1, 47
- J131. *The correlation between high-energy IceCube neutrinos and 5BZCAT blazars*, C. Bellenghi, **P. Padovani**, E. Resconi, P. Giommi, 2023, *Astrophysical Journal Letters*, 955, L32
- J130. *The Spectra of IceCube Neutrino (SIN) candidate sources - IV. Spectral energy distributions and multi-wavelength variability*, M. Karl, **P. Padovani**, P. Giommi, 2023, *Monthly Notices of the Royal Astronomical Society*, 526, 661
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- J128. *SUPER VII. Morphology and kinematics of H α emission in AGN host galaxies at Cosmic noon using SINFONI*, D. Kakkad, V. Mainieri, G. Vietri, I. Lamperti, S. Carniani, G. Cresci, G., C. M. Harrison, A. Marconi, M. Bischetti, C. Cicone, C. Circosta, B. Husemann, A. Man, F. Mannucci, H. Netzer, **P. Padovani**, M. Perna, A. Puglisi, J. Scholtz, G. Tozzi, C. Vignali, L. Zappacosta, 2023, *Monthly Notices of the Royal Astronomical Society*, 520, 5783
- J127. *A multi-messenger study of the blazar PKS 0735+178: a new major neutrino source candidate*, N. Sahakyan, P. Giommi, **P. Padovani**, M. Petropoulou, D. Bégué, B. Boccardi, S. Gasparyan, 2023, *Monthly Notices of the Royal Astronomical Society*, 519, 1396
- J126. *Assessing coincident neutrino detections using population models*, F. Capel, J. M. Burgess, D. J. Mortlock, **P. Padovani**, 2022, *Astronomy & Astrophysics*, 668, A190
- J125. *Athena synergies in the multi-messenger and transient universe*, L. Piro et al. [**P. Padovani** one of 33 other authors], 2022, *Experimental Astronomy*, Volume 54, Issue 1, 23
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- J119. *SUPER IV. CO(J=3-2) properties of Active Galactic Nuclei hosts at Cosmic Noon revealed by ALMA*, C. Circosta, V. Mainieri, I. Lamperti, **P. Padovani**, M. Bischetti, C. M. Harrison, D. Kakkad, A. Zanella, G. Vietri, G. Lanzuisi, M. Salvato, M. Brusa, S. Carniani, C. Cicone, G. Cresci, C. Feruglio, B. Husemann, F. Mannucci, A. Marconi, M. Perna, E. Piconcelli, A. Puglisi, A. Saintonge, M. Schramm, C. Vignali, L. Zappacosta, 2021, *Astronomy & Astrophysics*, 646, A96
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- J101. *Active Galactic Nuclei: what's in a name?*, **P. Padovani**, D. M. Alexander, R. J. Assef, B. De Marco, P. Giommi, R. C. Hickox, G. T. Richards, V. Smolčić, E. Hatziminaoglou, V. Mainieri, M. Salvato, 2017, The Astronomy and Astrophysics Review, 25, 2
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- J99. *ALMA observations of cold molecular gas in AGN hosts at $z \sim 1.5$. Evidence of AGN feedback?*, D. Kakkad, V. Mainieri, M. Brusa, **P. Padovani**, S. Carniani, C. Feruglio, M. Sargent, B. Husemann, A. Bongiorno, M. Bonzini, E. Piconcelli, J. D. Silverman, W. Rujopakarn, 2017, Monthly Notices of the Royal Astronomical Society, 468, 4205
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- J1. *Ionizing Photon Densities in the Broad Line Regions of Active Galactic Nuclei*, **P. Padovani**, 1988, *Astronomy and Astrophysics*, 192, 9.

Conference Papers

Invited Papers

- I37. *A multi-wavelength view of Active Galactic Nuclei with an emphasis on γ -rays*, **P. Padovani**, 2023, in “7th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy”, Barcelona, Spain, July 2022 (arXiv:2302.12540)
- I36. *The ESO Extremely Large Telescope instrumentation programme* S. Ramsay, et al. [**P. Padovani** one of 24 authors], 2020, in “Advances in Optical Astronomical Instrumentation 2019”, Proc. of SPIE Vol. 11203, 1120303
- I35. *Concluding Remarks – II*, **P. Padovani**, 2020, in “Multifrequency Behaviour of High Energy Cosmic Sources”, Palermo, Italy, June 2019 (arXiv:2001.04778)
- I34. *Active Galactic Nuclei at all wavelengths and from all angles*, **P. Padovani**, 2017, *Frontiers in Astronomy and Space Sciences*, Volume 4, 35, proceedings of the meeting “Quasars at all cosmic epochs”, Padova, April 2017
- I33. *Study of gamma-ray counterparts of IceCube high energy astrophysical neutrinos*, E. Resconi, **P. Padovani**, 2015, *Nuclear and Particle Physics Proceedings*, Volume 265, 261
- I32. *Exploring AGN Activity over Cosmic Time with the SKA*, V. Smolčić, **P. Padovani**, J. Delhaize, I. Prandoni, N. Seymour, M. Jarvis, J. Afonso, M. Magliocchetti, M. Huynh, M. Vaccari, A. Karim, 2015, in “Advancing Astrophysics with the Square Kilometre Array” PoS(AASKA14)069 (arXiv:1501.04820)
- I31. *Studies of Relativistic Jets in Active Galactic Nuclei with SKA*, I. Agudo, M. Boettcher, H. Falcke, M. Georganopoulos, G. Ghisellini, G. Giovannini, M. Giroletti, J. L. Gomez, L. Gurvits, R. Laing, M. Lister,

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- I30. *The Interplay between SF and AGN Activity, and its role in Galaxy Evolution*, K. McAlpine, I. Prandoni, M. Jarvis, N. Seymour, **P. Padovani**, P. Best, C. Simpson, D. Guidetti, E. Murphy, M. Huynh, M. Vaccari, S. White, R. Beswick, J. Afonso, M. Magliocchetti, M. Bondi, 2015, in “Advancing Astrophysics with the Square Kilometre Array” PoS(AASKA14)083 (arXiv:1412.5771)
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Abstracts and Contributed Papers

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- C86. *Probing Neutrino Emission from X-ray Blazar Flares observed with Swift-XRT*, S. I., Stathopoulos, M. Petropoulou, P. Giommi, G. Vasilopoulos, **P. Padovani**, A. Mastichiadis, 2022, in “37th International Cosmic Ray Conference (ICRC2021)”, Berlin, Germany
- C85. *Optical spectroscopy of 4FGLJ0258.1+2030: possible counterpart of the two neutrino events IceCube-191231A and IceCube-211125A*, S. Paiano, A. Treves, R. Falomo, **P. Padovani**, P. Giommi, R. Scarpa, 2021, The Astronomer’s Telegram, ATel#15085
- C84. *The ESO ELT armazones instrumentation programme*, M. Cirasuolo, et al. [**P. Padovani** one of 16 authors], 2020, in “Ground-based and Airborne Instrumentation for Astronomy VIII”, Proc. of SPIE Vol. 11447, 1144724, C. J. Evans, J. J. Bryant, K. Motohara eds.

- C83. *The optical spectrum of 4FGLJ0658.6+0636: a candidate counterpart of the IceCube 201114A neutrino event*, S. Paiano, R. Falomo, A. Treves, R. Scarpa, **P. Padovani**, P. Giommi, 2020, The Astronomer’s Telegram, ATel#14211
- C82. *Fermi J1725.5+1312 in the error region of the neutrino IC201021A is a likely High Energy Peaked (HBL) blazar*, P. Giommi, **P. Padovani**, T. Glauch, E. Resconi, 2020, The Astronomer’s Telegram, ATel#14192
- C81. *The redshift of 4FGLJ0955.1+3551 (3HSPJ095507.1+355100): a possible counterpart of the neutrino event IceCube-200107A*, S. Paiano, R. Falomo, A. Treves, **P. Padovani**, P. Giommi, A. Gargiulo, A. Rossi, 2020, The Astronomer’s Telegram, ATel#13457
- C80. *Spectroscopic lower limit to the redshift ($z > 0.863$) of the BL Lac object 4FGL J2255.1+2411, a possible neutrino source*, S. Paiano, **P. Padovani**, R. Falomo, P. Giommi, R. Scarpa, A. Treves, 2019, The Astronomer’s Telegram, ATel#13202
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- C78. *Dissecting the region around IceCube-170922A: the BL Lac TXS 0506+056 as the first cosmic neutrino source*, T. Glauch, **P. Padovani**, P. Giommi, E. Resconi, B. Arsioli, N. Sahakyan, M. Huber, 2019, in “Very Large Volume Neutrino Telescopes (VLVnT-2018)”, Dubna, Russia, EPJ Web of Conferences, Volume 207, id.02003, C. Spiering ed.
- C77. *Instrumentation for ESO’s Extremely Large Telescope*, S. Ramsay, et al. [**P. Padovani** one of 27 authors], 2018, in “Ground-based and Airborne Instrumentation for Astronomy VII”, Proc. of SPIE Vol. 10702, 107021P, C. J. Evans, L. Simard and H. Takami eds.
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- C69. *The Evolution and Radio Luminosity Function of Radio Quiet AGN*, K. Kellermann, **P. Padovani**, N. Miller, A. Kimball, the CDFS Group, and the EVLAQUASAR Group, 2012, Bulletin of the American Astronomical Society, 219, #109.06
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