Professional Publications

Paolo Padovani

Journal Papers

J140. *Setting Limits on Blazar-Boosted Dark Matter with Xenon-based Detectors* E. Barillier, L. Manenti, K. Morå, **P. Padovani**, I. Sarnoff, Y. Xu, Björn Penning, F. Arneodo, Physical Review D, 2025, submitted (arXiv:2509.07265)

J139. *Hillas meets Eddington: the case for blazars as ultra-high-energy neutrino sources*, X. Rodrigues, F. Rieger, A. Bohdan, **P. Padovani**, Astronomy & Astrophysics, 2025, submitted (arXiv:2508.18345)

J138. *Characterization of a sample of γ-ray active galactic nuclei*, A. Ulgiati, **P. Padovani**, P. Giommi, S. Paiano, C. Pinto, 2025, MNRAS, 543, 326

J137. *Identifying multiplets of IceCube alert events*, M. Karl, **P. Padovani**, P. Giommi, 2025, Astronomy & Astrophysics, 696, A172

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

J134. *The neutrino background from non-jetted active galactic nuclei*, **P. Padovani**, R. Gilli, E. Resconi, C. Bellenghi, F. Henningsen, 2024, Astronomy & Astrophysics Letters, 684, L21

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 Hα 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

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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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J123. *Probing Neutrino Emission from X-ray Blazar Flares observed with Swift-XRT*, S. Stathopoulos, M. Petropoulou, P. Giommi, G. Vasilopoulos, **P. Padovani**, A. Mastichiadis, 2022, Monthly Notices of the Royal Astronomical Society, 510, 4063

J122. *The spectra of IceCube neutrino candidate sources - II. Source Characterization*, **P. Padovani**, P. Giommi, R. Falomo, F. Oikonomou, M. Petropoulou, T. Glauch, E. Resconi, A. Treves, S., Paiano, 2022, Monthly Notices of the Royal Astronomical Society, 510, 2671

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J110. *Progress in unveiling extreme acceleration in persistent astrophysical jets*, J. Biteau, E. Prandini, L. Costamante, M. Lemoine, **P. Padovani**, E. Pueschel, E. Resconi, F. Tavecchio, A. Taylor, and A. Zech, 2020, Nature Astronomy, 4, 124

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J103. *Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert*, IceCube collaboration with **P. Padovani**, P. Giommi, B. Arsioli, N. Sahakyan, 2018, Science, 361, 147

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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

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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, J-M. Marti, E. Meyer, Y. Mizuno, S. O'Sullivan, **P. Padovani**, Z. Paragi, M. Perucho, D. Schleicher, L. Stawarz, N. Vlahakis, J. Wardle, 2015, in "Advancing Astrophysics with the Square Kilometre Array" PoS(AASKA14)093 (arXiv:1501.00420)

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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.

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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.

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C76. *A Novel Study Connecting Ultra-High Energy Cosmic Rays, Neutrinos, and Gamma-Rays*, S. Coenders, E. Resconi, **P. Padovani**, P. Giommi, L. Caccianiga, 2018, in "Proceedings of 2016 International Conference on Ultra-High Energy Cosmic Rays (UHECR2016)", JPS Conf. Proc. 19, 011021

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