Martina Marconi

August 1, 2025

Publication List and Proceedings

Publications

[1] KM3NeT collaboration, *Embedded software of the KM3NeT central logic board*, *Comput. Phys. Commun.* **296** (2024) 109036 [2308.01032].

[2] CTA Consortium, KM3NeT collaboration, *Prospects for combined analyses of hadronic emission from γ-ray sources in the Milky Way with CTA and KM3NeT*, *Eur. Phys. J. C* **84** (2024) 112 [2309.03007].

[3] KM3NeT collaboration, *Searches for neutrino counterparts of gravitational waves from the LIGO/Virgo third observing run with KM3NeT*, *JCAP* **04** (2024) 026 [2311.03804].

[4] KM3NeT collaboration, *The Power Board of the KM3NeT Digital Optical Module: design, upgrade, and production*, *Electronics* **13** (2024) 2044 [2311.14872].

[5] KM3NeT collaboration, *Astronomy potential of KM3NeT/ARCA*, *Eur. Phys. J. C* **84** (2024) 885 [2402.08363].

[6] KM3NeT collaboration, *Differential Sensitivity of the KM3NeT/ARCA detector to a diffuse neutrino flux and to point-like source emission: Exploring the case of the Starburst Galaxies*, *Astropart. Phys.* **162** (2024) 102990 [2402.09088].

[7] KM3NeT collaboration, *Search for neutrino emission from GRB 221009A using the KM3NeT ARCA and ORCA detectors*, *JCAP* **08** (2024) 006 [2404.05354].

[8] KM3NeT collaboration, *Atmospheric muons measured with the KM3NeT detectors in comparison with updated numeric predictions*, *Eur. Phys. J. C* **84** (2024) 696 [2403.11946].

[9] KM3NeT collaboration, *Measurement of neutrino oscillation parameters with the first six detection units of KM3NeT/ORCA*, *JHEP* **10** (2024) 206 [2408.07015].

[10] KM3NeT collaboration, *Search for quantum decoherence in neutrino oscillations with six detection units of KM3NeT/ORCA*, *JCAP* **03** (2025) 039 [2410.01388].

[11] CORSIKA collaboration, *gSeaGen code by KM3NeT: An efficient tool to propagate muons simulated with CORSIKA*, *Comput. Phys. Commun.* **314** (2025) 109660 [2410.24115].

[12] KM3NeT collaboration, *First searches for dark matter with the KM3NeT neutrino telescopes*, *JCAP* **03** (2025) 058 [2411.10092].

[13] KM3NeT collaboration, *Search for non-standard neutrino interactions with the first six detection units of KM3NeT/ORCA*, *JCAP* **02** (2025) 073 [2411.19078].

[14] KM3NeT collaboration, *Probing invisible neutrino decay with the first six detection units of KM3NeT/ORCA*, *JHEP* **04** (2025) 105 [2501.11336].

[15] KM3NeT collaboration, *Observation of an ultra-high-energy cosmic neutrino with KM3NeT*, *Nature* **638** (2025) 376 *Personal contribution:* search for a cosmic point-like neutrino source in the direction of KM3-230213A with KM3NeT/ORCA online datasets (Sections: Celestial origin, Methods - Search for point-like neutrino sources).

[16] KM3NeT collaboration, *Ultrahigh-Energy Event KM3-230213A within the Global Neutrino Landscape*, *Phys. Rev. X* **15** (2025) 031016 [2502.08173].

[17] KM3NeT collaboration, *On the Potential Cosmogenic Origin of the Ultra-high-energy Event KM3-230213A*, *Astrophys. J. Lett.* **984** (2025) L41 [2502.08508].

Proceedings

[1] KM3NeT collaboration, *KM3NeT real-time analysis framework*, *PoS* **TAUP2023** (2024) 273
Personal contribution: developer of the KM3NeT realt-time alert system and part of the real-time group.

[2] KM3NeT collaboration, *KM3NeT Online Multi-Messenger Results*, *EPJ Web Conf.* **319** (2025) 08004
Personal contribution: developer of the KM3NeT realt-time alert system and part of the real-time group.
Main author.

[3] KM3NeT collaboration, *The KM3NeT alert system for online multi-messenger astronomy*, *PoS* **ICRC2025** (2025) 920 in pubblication. *Personal contribution:* evelopment of the preselection module and high-energy neutrino identification module for ARCA and ORCA. *Main author.*

[4] KM3NeT collaboration, *Search for a cosmic point-like neutrino source from the direction of the ultra-high-energy event KM3-230213A*, *PoS* **ICRC2025** (2025) 1110 in pubblication. *Personal contribution:* search for a cosmic point-like neutrino source in the direction of KM3-230213A with KM3NeT/ORCA online datasets.
Corresponding author.

Note: Only proceedings with my direct personal contribution are reported.