ICRC 2025 - The Astroparticle Physics Conference



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The MAYORANA Project

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A multidisciplinary networking on neutrino physics for exchanging knowledge and expertise and founding a scientific common field and an International School is the multi-purpose goal of the MAYORANA (MultidisciplinArY netwORking Approach on Neutrino Aspects) Project. The neutrino is a key particle for astroparticle, particle and nuclear physics. At the current state-of-the-art, the nuclear and astro/particle communities, operating independently in neutrino physics, can play a real key role providing they merge own knowledge & expertise. At the University of Catania (Italy), we identify different astro/particle/nuclear experiments (AUGER, ICARUS, JEM-EUSO, JUNO, NUMEN) active in the field. We intended to explore scientific synergies among local research groups for initiating a local networking, foster international networking with related groups worldwide, integrate local expertise on related instrumental technologies and data analysis techniques, organize an international two-years High Educational School on Neutrino Physics characterized by a multidisciplinary approach merging nuclear, particle and astroparticle aspects. The fundamental result has been the foundation (2023 First Edition) and the organization of the international MAYORANA School&Workshop, based in the Sicilian territory, with relevant social, cultural, scientific and educational outcomes. On the basis of the real and recognized success of the first edition, the Second Edition of this School will take place in June 2025. Here we will describe genesis, steps and efforts, educational results and outreach outcomes of this novel venture.

Collaboration(s)

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