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NEutrino Properties Through Use of Nuclei (NEPTUN)

Monday 1 July 2024 11:00 (45 minutes)

In my talk I will highlight the background and achievements, as also some prospects, of the NEPTUN (NEutrino Properties Through Use of Nuclei) project's first year. NEPTUN is a 3-year neutrino-related nuclear-physics project funded by the EU through the Romanian Ministry of Research, Innovation and Digitzation. I will discuss the problem of the effective value of the weak axial-vector coupling g_{A} and ways to determine its value through β spectral shapes and the nuclear muon capture. I will also address the studies of total β spectral shapes related to quantification of natural radioactive backgrounds in rare-events and dark-matter experiments, as also the sterile neutrinos in the light of reactor antineutrino anomalies.

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