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TALK: Standard Model and Beyond the Standard Model Perspectives on Coherent Elastic Neutrino-Nucleus Scattering

Monday, June 30, 2025 1:00 PM (45 minutes)

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Abstract: In this talk, I will discuss the physics potential of coherent elastic neutrino-nucleus scattering (CEvNS), a neutral-current process in which a neutrino scatters off an entire nucleus. I will first briefly review the main features of CEvNS and the status of current observations. Then, I will examine how these measurements have enabled a broad range of physics applications, from precision tests of the Standard Model to probes of new physics, with particular relevance to dark matter direct detection experiments.

Presenter: DE ROMERI, Valentina (IFIC (CSIC/UV))