International Conference on the Physics of the Two Infinities



ID de Contribution: 36

Type: Non spécifié

Studying neutrinos with lead perovskites

The recent discovery of Coherent Elastic neutrino-Nucleus Scattering (CE ν NS) has created new opportunities to detect and study neutrinos. The interaction cross-section in CE ν NS scales quadratically with the number of neutrons, making heavy-nuclei targets attractive. Lead perovskites have emerged in the last decade as revolutionary materials for radiation detection due to their heavy and flexible element composition and their unique optoelectronic properties that result in an excellent energy resolution at an economic cost. We propose lead perovskites as highly promising lead-based active materials for neutrino research by means of the study of CE ν NS.

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Classification de Session: Poster session