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Neutrino and Nuclear Properties from Coherent Elastic Neutrino-Nucleus Scattering

Thursday 29 July 2021 08:00 (25 minutes)

I will review the process of coherent elastic neutrino-nucleus scattering, with emphasis on its recent observation in the COHERENT experiment with CsI and Ar targets.

I will discuss:

the determination of the radius of the nuclear neutron distributions in Cs, I and Ar;

the determination of the low-energy value of the weak mixing angle;

the constraints on non-standard neutrino properties:

neutrino magnetic moments, charges, charge radii, and non-standard interactions.

Author: Dr GIUNTI, Carlo (INFN)

Presenter: Dr GIUNTI, Carlo (INFN)

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