Laboratoire LEPRINCE-RINGUET
Ecole polytechnique IN2P3/CNRS

Séminaire

Direct Dark Matter Search with XENON Project

Understanding the properties of dark matter particle is a fundamental problem in particle physics and cosmology. Its Direct Detection (the search of dark matter particle scattering off nuclei target using ultra-low background detector) is one of the most promising technology to decipher the nature of dark matter. Dual phase Liquid Xenon TPCs, in particular with the XENON1T detector, have done much to push the sensitivity bounds for detection of a broad range of WIMP masses, from O(100)MeV up to the TeV scale, by combining different analysis techniques. This talk gives the analysis and results from XENON1T experiment, showing its rich potential, also extrapolating it to the future upgraded XENONnT experiment which will start commissioning in Spring 2020.

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Salle conférence du LLR

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Responsables séminaires

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