ID de Contribution: **154** Type: **Ordinary**

The XENON Dark Matter Search

mercredi 14 mars 2018 08:55 (15 minutes)

The XENON collaboration is seeking to directly measure weakly interacting massive particles (WIMPs) using liquid xenon time projection chambers (TPCs) of increasing target mass. The current stage, XENON1T, utilizes 3.2 tons of ultra-pure liquid xenon and has collected more than 1 ton x year of exposure. This dataset allows unprecedented sensitivity on the WIMP-nucleon cross section and new results from this dataset will be announced in spring 2018. A new upgrade, XENONnT, is under construction and will further increase the target mass by a factor of 3 compared to XENON1T. This detector will start operation at the end of 2019.

This talk focuses on the pending result and the analysis of the XENON1T science data.

Summary

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Classification de Session: Wednesday morning: Dark Matter