



Contribution ID: 362

Type: **Parallel Talk**

LUX: A Large Two-phase Liquid Xenon Detector for WIMP Search

Friday 27 July 2007 15:20 (20 minutes)

LUX is a new collaboration which has proposed a 100 Kg (fiducial) Liquid Xenon two-phase TPC detector for WIMP search. I will describe the detector, present simulations and comment on the sensitivity that can be achieved. Critical pieces of the detector are under construction and we will have an engineering run (above ground) in the Fall of 2007. The full detector, expected to be the most sensitive at that time, should start operations in an underground lab in mid 2009.

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Session Classification: Cosmology 3

Track Classification: Cosmology and Astrophysics