Contribution ID : **61** Type : **Plenary/section talk**

Searching for Dark Matter with LUX and LZ

Thursday, 13 October 2016 11:30 (30)

The LUX collaboration has recently released its 332 live-day WIMP search result. LUX remains at the forefront of the search for this dark matter candidate particle, in the 7 GeV/c^2 and higher range, with a maximal spin-independent sensitivity of 2.2 x 10^{-46} cm^2 cross-section for a mass of 50 GeV/c^2 now established. Spin-dependent and axion limits will also be discussed, as well as the present status of of LUX's 10-ton-scale, Generation-2 successor LZ. It plans on achieving a sensitivity of better than 3 x 10^{-48} cm^2 for a WIMP of 40 GeV/c^2 rest mass.

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Session Classification : Nuclear physics and particle physics - plenary VI

Track Classification : Nuclear physics and particle physics