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Results from the annual modulation analysis of the XMASS-I dark matter data

Friday 31 July 2015 14:00 (15 minutes)

XMASS-I, the first phase of the XMASS project, is a direct detection dark matter experiment using 832 kg of liquid xenon at Kamioka in Japan. One of the signatures of dark matter in direct detection experiments is the annual modulation of the event rate due to the relative motion of the Earth around the Sun. We have continuously collected data with a low trigger threshold of 0.3 keVee for more than one year since November 2013. In this talk, we will present the physics results from the annual modulation analysis using the full 832kg liquid xenon volume of the XMASS-I detector.

Collaboration

– not specified –

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