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Results from the fiducial volume analysis of the XMASS-I dark matter data

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XMASS-I, the first phase of the XMASS project, is a direct detection dark matter experiment using 832 kg of liquid xenon.

The key idea to reduce the background at low energies in XMASS is to use liquid xenon itself as a shield.

In this analysis the clean core of the 832 kg liquid xenon volume is used as sensitive fiducial volume by eliminating the volume near the wall which suffers from beta and gamma rays from the outside.

In this talk, we will present the physics results for our direct dark matter search using this fiducial volume of the XMASS-I detector.

Collaboration

– not specified –

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