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Recent results of direct dark matter search with XMASS ($2\sigma + 5\sigma$)

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The XMASS program is a multi-purpose experiment with a large volume liquid xenon scintillator detector located 1,000m underground at Kamioka in Japan. The first generation detector, XMASS-I, employs ~830 kg of liquid xenon in an active volume.

We started the first data-taking in December 2010, and the data provided various dark matter searches such as light WIMPs, inelastic WIMP-129Xe scattering, and bosonic super-WIMPs. After a year of the detector refurbishment work, data-taking was resumed in November 2013.

We have recently published the results of annual modulation search with 359 live days x 832 kg of exposure accumulated after the refurbishment. In this talk, we will present the latest dark matter search results from XMASS-I.

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