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Latest results from the XMASS experiment

Saturday, 30 June 2018 15:00 (30 minutes)

XMASS is a multi-purpose experiment using a single-phase liquid-xenon scintillator
detector located underground at Kamioka Observatory in Japan. We are continuously taking data since November 2013 for more than four years. Leveraging a low-energy threshold and low background, XMASS has performed various researches especially in fields of dark matter and neutrinos, both of which are in the scope of this NDM conference. We conducted not only the standard WIMP search, but also various dark matter searches such as annual modulation, bosonic super-WIMPs, and WIMP-129Xe inelastic scattering searches. XMASS is also pursuing various researches in particle and astroparticle physics such as supernova neutrino observation, solar axion, and two-neutrino double electron capture searches. In this talk, we will present the latest physics results from XMASS.

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