

Status of the NEXT experiment after the first data-taking run with the NEW prototype

Friday, 23 June 2017 12:20 (15 minutes)

NEXT is an experiment aiming for the discovery of the neutrinoless double beta decay in ^{136}Xe . Using a high-pressure TPC with electroluminescence amplification and a combination of PMTs and SiPMs as detection technologies, the energy resolution has been measured to be better than 1% FWHM @ Q_{bb} with smaller prototypes. The underground operation of the latest prototype (NEW) has recently begun and the first calibration data taken since November provide excellent prospects for the future.

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Session Classification: Working Group: Neutrino Physics

Track Classification: Neutrino Physics Working Group