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Calibration of the DEAP3600 Direct Detection Dark Matter Experiment

The DEAP-3600 experiment is located at SNOLAB, 2 km underground in Sudbury, Ontario. It is a single-phase detector, which will search for dark matter particle interactions with 1 tonne fiducial mass of liquid argon target. Construction of the detector is nearly complete, and calibration commissioning of the detector is beginning. The projected sensitivity to spin-independent scattering of Weakly Interacting Massive Particles (WIMPs) on nucleons is 10^{-46} cm², a factor of 20 improvement in sensitivity over current searches at 100 GeV WIMP mass. The calibration systems for DEAP3600 and the status of commissioning at SNOLAB will be presented.

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