

Title: **Status of the XENON100 experiment**

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Abstract

The XENON collaboration searches for Dark Matter using a dual-phase xenon TPC to measure nuclear recoils from WIMPs scattered on Xe nuclei. The next step of the XENON program is XENON100, a 170 kg detector with a fiducial mass of about 50 kg surrounded by an active liquid xenon veto. It is currently installed underground at LNGS (Italy). First test measurements have already started, and it will take WIMP search data in fall 2008.

In this talk, I will briefly introduce XENON100, its expected sensitivity, and present the current status.