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The XENON100 experiment

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XENON100 is a dual-phase (liquid-gas) time projection chamber (TPC) containing a total of 161 kg of LXe with a 62 kg WIMP target mass, built with radiopure materials to achieve an ultra-low electro- magnetic background and operated at the Laboratori Nazionali del Gran Sasso in Italy. 224.6 live days of data acquired during 2011 and 2012 have resulted in the most stringent limits on the spin-independent elastic WIMP-nucleon cross sections for WIMP masses above 8 GeV/c2. The same data also have resulted the most stringent limits on the spin-depedent WIMP-neutron cross sections above 6GeV/c2. The experiment and its latest dark matter search results will be presented in this talk.

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