

Phenomenology 2019 Symposium



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WIMP Dark Matter Search Results from XENON1T

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The XENON1T direct dark matter search experiment is a dual-phase xenon Time Projection Chamber used to search for WIMP interactions in a 2-ton active liquid xenon target. With a recent series of publications, the XENON collaboration has used a tonne-year exposure of XENON1T, with the lowest background rate of any current dark matter search experiment, to constrain leading models of WIMP interactions. This talk will summarize these results, which include the most stringent limits on the spin-independent WIMP-nucleon, scalar WIMP-pion, and spin-dependent WIMP-neutron scattering cross sections.

Summary

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