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DM searches with LXe

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Direct dark matter searches have been conducted for more than 30 years in the underground laboratories to look for signals via dark matter-nucleus elastic scattering of its target materials. Weakly interacting massive particles as dark matter candidates arise naturally in various theories, such as Supersymmetry, Extra Dimensions. WIMPs interact through the weak interaction and can efficiently transfer kinetic energy by the scattering from atomic nuclei, the WIMP model can be tested by searching for nuclear recoils in a sensitive, low-radioactivity detector. This review talk will focus on a liquid xenon base detectors among those searches which include current bounds and future prospects.

Affiliation

Kamioka Observatory, ICRR, Univ. of Tokyo

Primary author: Prof. YAMASHITA, Masaki (ICRR, The University of Tokyo)

Presenter: Prof. YAMASHITA, Masaki (ICRR, The University of Tokyo)

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