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Dark Matter experimental searches

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There is an overwhelming evidence of the existence of dark matter (DM) from observations at different scales, from galaxies to the whole Universe, supporting that a large fraction of the mass and energy budget cannot be explained within the standard cosmological model. Weakly Interacting Massive Particles (WIMPs) have been proposed to be most interesting DM candidates. Different complementary techniques and strategies are being used all over the world for the detection of dark matter. In this review, I will be discussing the direct detection method (elastic scattering of WIMPs off target nuclei) and indirect detection methods (production of standard particles through annihilation of DM candidates) and will summarize the latest results and the future of the field.

Session

Plenary

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