

Electroweak Dark Matter and Direct Detection

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The existence of Dark Matter (DM) is one of the most important indications of physics beyond the Standard Model of particle physics. One promising approach is to consider DM as Weakly Interacting Massive Particles. These candidates have evoked a prominent interest; many experiments explore Weakly Interacting Massive Particles, one of the approaches to detect them is Direct Detection which is favored when the candidate is above the Electroweak Scale.

On this talk we will introduce Direct Detection experiments and discuss an overview of present constraints. We will finally explain the approach to predict the possible phenomenology of different candidates to DM in the context of Direct Detection.

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