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Status and Perspectives of Direct Dark Matter Searches

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The direct search for dark matter particle interactions is one of the top priorities in astroparticle physics. A positive measurement will provide the most unambiguous confirmation of the particle nature of dark matter in the Universe. A review of the experimental programme of direct detection searches of particle dark matter is presented. It focuses mostly on current and planned activities in the field. This review shows also how the hunt for dark matter particle strongly overlaps with the subject of new physics beyond the standard model and it links with several other areas of particle physics, including neutrinos.

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