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Tien-Tien Yu (CERN): New Ideas for sub-GeV Dark Matter Direct Detection

Wednesday, 21 February 2018 13:30 (30 minutes)

The lack of any unambiguous signature of traditional WIMP dark matter, with masses of order 100 GeV, in direct detection searches has prompted a great deal of interest in new techniques, both theoretical and experimental, to probe dark matter candidates below a GeV in mass. In this talk, I will provide a brief survey of some of the recent proposals for the direct detection of meV-GeV mass dark matter candidates. In particular, I will highlight the status of the various proposed experiments, as well as their targeted reach for various dark matter candidates.

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