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Accelerator Search for Dark Matter

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The search for dark matter with masses below the WIMP regime, that is, in the MeV to GeV range, has aroused a great deal of recent interest. In this mass region, accelerator experiments can explore the production of dark matter down to the thermal relic limit. This talk will review the various experimental approaches, with some emphasis on LDMX (the Light Dark Matter eXperiment), a nascent electron-beam fixed-target missing-momentum experiment, planned to run parasitically in the SLAC S30XL beamline, with unique sensitivity to light DM in the sub-GeV range.

Name of collaboration or list of co-authors

LDMX

Primary author: HITLIN, David

Presenter: HITLIN, David

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