

New Perspectives



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SuperCDMS HVeV program at the NEXUS facility at Fermilab

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The Super Cryogenic Dark Matter Search (SuperCDMS) employs silicon and germanium calorimeters equipped with transition edge sensors to directly search for interactions from dark matter (DM). New 1-gram SuperCDMS HVeV (high-voltage with eV resolution) devices exhibit single-charge sensitivity, making it possible to search for sub-GeV-mass DM candidates such as electron-recoiling DM, dark photons and axion-like particles. These detectors are currently operated in the NEXUS facility at Fermilab. In this talk, I will present the status of the SuperCDMS HVeV program at NEXUS.

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