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eV-threshold Direct Dark Matter Searches

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Over the last decade, significant advancements in semiconductor charge detectors have enabled single-electron resolution and threshold for the first time. These low thresholds significantly enhance detector resolution to well-motivated, but unconstrained, sub-GeV dark matter models. Following an overview of these experimental techniques in silicon and germanium detectors, I will focus on one such detector technology: Skipper CCDs. I will summarize the robust CCD program over the next decade, including recent results from DAMIC at SNOLAB, upcoming experiments including SENSEI and DAMIC-M, and ultimately the 10 kg scale OSCURA detector.

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Collaboration / Activity

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