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Low Tc Thin Film Superconducting Detectors

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A number of applications, including neutrino studies and the search for dark matter, require detectors with lower thresholds and increased sensitivity. Superconducting detectors like Transition Edge Sensors (TES), Microwave Kinetic Inductance Detectors (MKID), and Josephson Junctions are attractive candidate technologies where the use of low Tc materials could enable them to address theses needs. I will present an overview of some ongoing work at Argonne National Lab for developing low Tc thin films, integrating them into new detector technologies such as athermal and bolometric TES detectors, and discuss future potential for other classes of devices.

Early Career

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