

Enabling technologies for future axion searches

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The success of current axion experiments depends critically on overcoming technical challenges related to instrumentation. My work focuses on two key areas: first, the development of an intermediate receiver chain for the Quantum Sensors for the Hidden Sector (QSHS) project; and second, the implementation of a Data Acquisition System, which incorporates a second heterodyning stage using digital signal processing techniques. I will the progress achieved in these areas.

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