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ASGARD

The Aluminium Superconducting Grid Array for Radiation Detection (ASGARD) anticipates to perform world-first precision spectroscopy of recoiling nuclei following short-lived beta decays. It will do this using novel superconducting tunnel junction detectors operated inside a windowless dilution refrigerator that can be coupled to a room temperature beam line. As part of the first measurements, we envision stable beam commissioning and first physics measurements to constrain the top-row unitarity of the quark mixing matrix, and the presence of exotic scalar and tensor currents with the isotopes requested.

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