

The new Cryolab at Kamioka

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A new experimental setup for low mass particle dark matter searches has been installed at the Kamioka underground facility, with an overburden of 2700 m.w.e. Ambient gamma and neutron background levels have been measured. A dilution refrigerator is operational with gamma and neutron shielding under construction. Geant simulations predict backgrounds of 10 events/kg/keV/day with this setup. Multiple experiments are under preparation for g-yr level dark matter search exposures starting in mid 2025. These include superconducting targets read out with optical TES sensors and a test underground run of a TESSERACT Collaboration helium target payload. A status update will be provided.

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