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Status of ess cryomodule test in orepararion for beam commissioning

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ESS is completing the installation of the first phase of the operation, which will start in the fall of 2024 on the partial beam dump and proceed with operation on the target in 2025, after receiving the intentional neutron production license from the authorities.

All modules (CM) for this operation phase, with an energy reach of 870 MeV and a power capability of 2 MW, will be tested by early summer 2024.

Site Acceptance test of ESS elliptical modules takes place at TS2, Lund ESS Test Stand, and all module performance data is stored. Along with cavity conditioning in an open loop and cavity operation in a closed loop, field emission maximum energy and both gamma and neutron dose rates are measured and stored.

The CM performance, associated statistics, operational experience and challenges is discussed here.

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