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SRF 400 & 800 MHz cryomodules: design evolution and future work

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The technical specifications for the cryomodules have been evolving following the SRF requirements and the approval of the Reverse Phase Operation (RPO) scheme. The conceptual design for the 400MHz and 800MHz cryomodules, as described in the FCC Feasibility Study Report, have been completed accounting for the SRF needs but also for the integration of the equipment and dedicated services in the FCCee machine tunnel. This presentation describes the recent updates in the cryomodules technical specifications, heat load budgets and the design challenges linked to the latest SRF requirements. The current engineering design activities will be illustrated together with the planned work from conceptual to detailed design of the cryomodules and its internal components (helium tank, tuner, FPC, HOM, etc.) for the construction of demonstrator prototypes.

Author: CANDERAN, Karin (CERN)**Presenter:** CANDERAN, Karin (CERN)**Session Classification:** Superconducting Radio Frequency**Track Classification:** FCC accelerators: SRF Programme