



Contribution ID: 1531 Contribution code: WEPS19

Type: **Poster Presentation**

ESS installation progresses

Wednesday, 22 May 2024 16:00 (2 hours)

The ESS Linac on-going installation and technical commissioning are progressing towards the first operation at 870 MeV on the beam dump in fall 2024. Four out of five DTL tanks were commissioned with beam in the normal conducting section (NCL) and a pilot installation of 1 spoke and 1 elliptical cryomodule was conducted in the superconducting (SCL) part of the ESS tunnel in spring 2023. Regarding the latter, the goal was both to demonstrate the installation sequence as well as the completion of the cryogenic distribution system (CDS) commissioning. A total of 13 spoke and 14 elliptical cryomodules (9MB + 5HB) are being installed. Overall, 30 elliptical cryomodules will be necessary to allow the 5 MW potential power after the target commissioning. The CM test plan along with the installation of the necessary RF power stations up to the 2 MW stage for the first project phase is advancing well. This contribution will report on the deliveries from the In-kind partners, SRF activities at the ESS test stands including the resolution of non-conformities and focus on the installation and technical commissioning of the linac components.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Europe

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Session Classification: Wednesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T07 Superconducting RF