

ESS linac overall status and normal-conducting linac commissioning

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The European Spallation Source (ESS), currently under construction in Lund, Sweden, will be the brightest spallation neutron source in the world, when its driving superconducting proton linac achieves the design power of 5 MW at 2 GeV. Such a high power linac requires production, efficient acceleration, and almost no-loss transport of a high current beam (62.5 mA), thus making its design and beam commissioning challenging. Beam commissioning for the normal-conducting part of the linac is ongoing in stages. In 2022, the beam was accelerated up to the first tank of the five-tank drift-tube linac. This presentation provides a brief summary of the ESS linac project and presents highlights from ongoing beam commissioning.

Attendance type

Virtual presentation

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