



Contribution ID: 144

Type: **Oral Presentation**

ESS Accelerator update and experience from ESS ion source and LEBT beam commissioning

Thursday, 17 October 2019 14:00 (30 minutes)

On the site of the European Spallation Source (ESS) in Lund, Sweden, great progresses have been made in all areas of its linac construction. Highlights include that installations of the radio frequency quadrupole and the following medium energy beam transport are being completed, assembly of the first drift tube linac tank is also being completing, the cryomodule test-stand is about to start its operations, and steady progresses have made in installations and testing of the RF system. One of the recent biggest highlights was the first beam extraction on the ESS site, followed by an establishment of stable operations of the ion source (IS) and various types of characterizations and optimizations performed for the IS and the following low energy beam transport (LEBT). This contribution presents these recent highlights on the ESS site, with a focus on results from the first beam commissioning activities on the ESS site for the IS and LEBT.

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Session Classification: Accelerator

Track Classification: Accelerator