

MM 08.12.2020

- **FoS:**
 - production of rf-coupling loop
 - preparation of hprf-testing: cabling finished
 - DT-plating: one tube re-welded -> sent to plating
 - DT-study: delayed by one month to January
- **Alvarez 2.0:**
 - EVGF for cavity series production ready for submission
 - components for early procurement identified (390 k€)
 - enter logistics procedure
 - exploit available Cu-plating vacancies
 - EVGF ready for submission
 - prepare entering into CDB & “CID” procedure
 - prepare collaboration with CERN on Cu-plating
- **pulsed stripper:**
 - prepare valve tests at consultant through tests at GSI with N₂
 - Draft “EX-Schutz” available, but corrections required
 - cabinet to be delivered Dec. 22nd
- **accelerator seminar this Thursday:**
 - D. Noll (CERN), “LINAC-4 source & LEBT studies”



ACCELERATOR SEMINAR

Daniel Noll
CERN

Thursday, 10. December 2020 at 4 pm

Online-Seminar via Zoom
(ID: 919 9272 7808/ PW: 027344)

Linac4 Source Extraction and Low-Energy Beam Transport Studies

Linac4, a 160 MeV, 352.2 MHz, H⁻ accelerator will become the new injector to CERN's chain of accelerators at the end of the second long shutdown of the LHC (LS2). While the beam quality provided at 160 MeV and at 25 mA is sufficient for the production of beams conforming to the LHC Injectors Upgrade (LIU) goals, higher beam currents will be beneficial for future users. Presently, the beam current from the Linac is limited by the pre-injector: source, low-energy beam transport and RFQ. In this talk, some of the investigations done between 2017-2019 on modeling and understanding the extraction from the ion source, as well as investigations into the low-energy beam transport will be presented.

Coordinator: Anja Seibel, Janet Schmidt
Secretary: Larissa Birli
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GSI **FAIR**