Low Level RF Workshop 2022

9-13 Oct 2022, Brugg-Windisch, Switzerland

Contribution ID: **52** Type: **Oral**

Status of the LCLS-II SRF Systems and LLRF Commissioning

Thursday 13 October 2022 08:20 (30 minutes)

The SLAC National Accelerator Laboratory has completed the installation and checkout of RF systems for the SRF based accelerator LCLS-II, an ultra-bright Free Electron Laser. The LCLS-II is composed of 296 SRF cavities plus 2 NC cavities, each with its own LLRF control system and dedicated RF amplifier. At the time of this abstract submission, beam transport through the injector is imminent and beam through the linac is planned soon after. This LCLS-II status talk will briefly describe the RF system, summarize RF checkout, and discuss SRF commissioning of the LCLS-II linac.

Primary authors: RATTI, Alessandro; BENWELL, Andy (SLAC); Mr MCCOLLOUGH, Andre (SLAC); CHASE, B. (Fermilab); Mr RAMAKRISHNA, Bachimanchi (Jefferson Laboratory); SERRANO, Carlos (Lawrence Berkeley National Laboratory); Mr CHABOT, Daron (SLAC); Mr CULLERTON, Ed; Dr HUANG, Gang (LBNL); Mr CURT, Hovater (Jefferson Laboratory); Mr CHEN, Jing (SLAC); DIAZ-CRUZ, Jorge A (SLAC National Accelerator Laboratory); EINSTEIN-CURTIS, Joshua (RadiaSoft); DOOLITTLE, Lawrence (Lawrence Berkeley National Laboratory); Mr PETREE, Mark (SLAC); Mr KELLY, Richard (SLAC); Ms MURTHY, Shree (LBNL); Ms HOOBLER, Sonya (SLAC)

Presenter: BENWELL, Andy (SLAC)

Session Classification: Superconducting RF

Track Classification: Low Level RF Workshop 2022