Contribution ID: **1249** Contribution code: **MOPM083** Type: **Poster Presentation**

Status of the FLUTE RF system upgrade

Monday 2 June 2025 16:00 (2 hours)

FLUTE (Ferninfrarot Linac- Und Test-Experiment) is a new compact versatile linear accelerator at KIT. Its main goal is to serve as a platform for a variety of accelerator studies as well as a generation of strong ultra-short THz pulses for photon science. Also it will be used as an injector for a Very Large Acceptance compact Storage Ring (VLA-cSR) which will be realized at KIT in the framework of the compact STorage Ring for Accelerator Research and Technology (cSTART) project. To achieve acceleration of electrons in the RF photo-injector and linac with high stability, it is necessary to provide stable RF power. For this goal, an upgrade of the existing RF system design has been proposed and is currently being implemented. In this contribution an updated RF system design and the status of the RF photo-injector, linac and bunch compressor commissioning will be reported.

Footnotes

Paper preparation format

Word

Region represented

Europe

Funding Agency

Author: MALYGIN, Anton (Karlsruhe Institute of Technology)

Co-authors: NABINGER, Matthias (Karlsruhe Institute of Technology); NASSE, Michael (Karlsruhe Institute of Technology); RUPRECHT, Robert (Karlsruhe Institute of Technology); SCHUH, Marcel (Karlsruhe Institute of Technology); SMALE, Nigel (Karlsruhe Instutute of Technology); MUELLER, Anke-Susanne (Karlsruhe Institute of Technology)

Presenter: MALYGIN, Anton (Karlsruhe Institute of Technology)

Session Classification: Monday Poster Session

Track Classification: MC1 :Colliders and Related Accelerators: MC1.A08 Linear Accelerators