



Contribution ID: 43

Type: **not specified**

Compact linear accelerator FLUTE: status update

Wednesday, November 8, 2023 4:30 PM (20 minutes)

FLUTE (Ferninfrarot Linac- Und Test-Experiment) at KIT, developed and operated by KIT-IBPT, serves as an accelerator test facility for a variety of accelerator studies, delivering coherent radiation in the form of ultra-short, very intense light pulses spanning the terahertz and far-infrared spectral range and beyond. It will also serve as an injector for a compact Very Large Acceptance Storage Ring (VLA-cSR) being realised at KIT as part of the cSTART (compact SStorage Ring for Accelerator Research and Technology) project. In order to achieve the acceleration of electrons in the RF photoinjector and linac with high stability, an upgrade of the RF system has been carried out, which provides more stable RF performance than before. This paper reports on the design and commissioning status of the RF system including the new RF photoinjector.

Primary author: MALYGIN, Anton (Karlsruhe Institute of Technology)

Presenter: MALYGIN, Anton (Karlsruhe Institute of Technology)

Track Classification: 26th ESLS RF Workshop