



Contribution ID: 1805 Contribution code: TUPS073

Type: **Poster Presentation**

Preliminary test of the MeV ultrafast electron diffraction instrument at e-labs

Tuesday 3 June 2025 16:00 (2 hours)

The injector test facility for PAL-XFEL project has been evolved into R&D facility named e-labs, where a preliminary test of MeV ultrafast electron diffraction (UED) was carried out. MeV-UED provides similar scientific opportunities as femtosecond time-resolved XRD experiments at XFEL facilities, and would be a useful tool to overcome a limited beam time problem of XFEL. MeV-UED is a pump-probe experiments required high stability to see a small difference in femtosecond time scale. In e-labs, experimental tests for routine operation and improving S/N ration has been studied

Footnotes

Paper preparation format

Word

Region represented

Asia

Funding Agency

Author: MIN, Chang-Ki (Pohang Accelerator Laboratory)

Co-authors: SUNG, Chang-Kyu (Pohang Accelerator Laboratory); NA, Dong Hyun (Pohang Accelerator Laboratory); HEO, Hoon (Pohang Accelerator Laboratory); PARK, Jaeku (Pohang Accelerator Laboratory)

Presenter: MIN, Chang-Ki (Pohang Accelerator Laboratory)

Session Classification: Tuesday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.T02 Electron Sources