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Facility report on KU-FEL.

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Kyoto University Free Electron Laser (KU-FEL) facility has been developed for energy-related research by the Institute of Advanced Energy, Kyoto University. There are two accelerator-driven infrared coherent light sources in the facility. One is the oscillator-type FEL whose wavelength range is 3.4 to 26 micro-m[1]. The other one is the THz-Coherent Undulator Radiation (THz-CUR) source [2] whose frequency range is 0.1 to 0.4 THz. In addition to the accelerator-driven light sources, several solid-state laser sources can be used together. The facility is open to domestic and international users. In fiscal year 2023, 18 external user groups used the facility for their research. The current status and results of recent upgrade projects for improving the performance of the light sources will be presented.

[1] H. Zen et al., Physics Procedia 84, 47-53 (2016).

[2] S. Krainara et al., Rev. Sci. Instrum. 90, 103307 (2019).

Footnotes

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