Contribution ID: **1400** Contribution code: **MOPA063** Type: **Poster Presentation**

Light source developments at UVSOR BL1U

Monday 8 May 2023 16:30 (2 hours)

UVSOR, a low energy synchrotron light source, has been operational for about 40 years. It has been providing high brightness VUV radiation to users but also providing a research environment for light source technology developments. In this paper, first, we briefly review the history of the light source developments at UVSOR. Then, we describe a beamline BL1U, which is currently used for developments and applications of novel light source technologies. The beamline is equipped with two variable polarized undulators with a phase-shifter magnet and with a femto-second laser system which is synchronized with the RF acceleration. We have been developing resonator free electron laser, coherent harmonic generation, coherent synchrotron radiation, inverse Compton scattering, spatiotemporal-structured light and have been exploring their applications, in collaboration with researchers from universities and research institutes. We present the present status of BL1U and some recent results.

Funding Agency

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Session Classification: Monday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A05: Synchrotron Radiation Facilities