



Contribution ID: 1030 Contribution code: TUPM062

Type: Poster Presentation

Status of S-PRESSO, a superconducting undulator for the European XFEL

Tuesday 3 June 2025 16:00 (2 hours)

Up to six superconducting undulator modules are foreseen to be installed downstream with respect to the permanent magnet undulators of SASE2, one of the two hard X-ray lines at European XFEL. Aim is to provide users with photon energies above 30 keV. The superconducting undulator pre-series module (S-PRESSO) is currently under production. Before installation in the tunnel, the magnetic structures are characterized in the vertical He bath cryostat SUNDAE1 (Superconducting UNDulator Experiment), and in the horizontal test stand to perform quality assurance of the SCU coils installed in the final cryostat SUNDAE2. This contribution describes the status of the project.

Footnotes

Paper preparation format

LaTeX

Region represented

Europe

Funding Agency

Author: CASALBUONI, Sara (European XFEL GmbH)

Co-authors: HOBL, Achim (Bilfinger Noell GmbH); SHETIWY, Ahmed (European XFEL GmbH); NANDAWADEKAR, Ajit (European XFEL GmbH); VATAGIN, Alexander (Bilfinger Noell GmbH); DOOSTI, Amir (European XFEL GmbH); HAUBERG, Axel (Deutsches Elektronen-Synchrotron); HELWICH, Christian (Deutsches Elektronen-Synchrotron); SINN, Harald (European XFEL GmbH); ABENHAIM, Jacques (European XFEL GmbH); BAADER, Johann (European XFEL GmbH); JENSCH, Kay (Deutsches Elektronen-Synchrotron); YAKOPOV, Mikhail (European XFEL GmbH); ZIOLKOWSKI, Pawel (European XFEL GmbH); BARBANOTTI, Serena (Deutsches Elektronen-Synchrotron); ABEGHYAN, Suren (European XFEL GmbH); SCHMIDT, Thomas (Paul Scherrer Institute); WALTER, Wolfgang (Bilfinger Noell GmbH)

Presenter: CASALBUONI, Sara (European XFEL GmbH)

Session Classification: Tuesday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.T15 Undulators and Wigglers