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Status of the Free-Electron Laser User Facility FLASH

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FLASH, the free-electron laser user facility at DESY, delivers XUV and soft X-ray radiation for photon experiments since 2005. It is driven by a superconducting linear accelerator, and has two undulator lines (FLASH1 and FLASH2). A third electron beam line hosts the plasma wakefield experiment FLASHForward. Presently, the FLASH facility is undergoing an extensive refurbishment and a substantial upgrade (FLASH2020+). In this paper we summarize the FLASH operation in 2019 - 2021, and report on the main upgrades realized in a long installation shutdown from November 2021 to summer 2022.

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Primary authors: HONKAVAARA, Katja (Deutsches Elektronen-Synchrotron); SCHREIBER, Siegfried (Deutsches Elektronen-Synchrotron); VOGT, Mathias (Deutsches Elektronen-Synchrotron); ROENSCH-SCHULENBURG, Juliane (Deutsches Elektronen-Synchrotron); KUHLMANN, Marion (Deutsches Elektronen-Synchrotron); SCHAPER, Lucas (Deutsches Elektronen-Synchrotron); GERTH, Christopher (Deutsches Elektronen-Synchrotron); TREUSCH, Rolf (Deutsches Elektronen-Synchrotron); ZEMELLA, Johann (Deutsches Elektronen-Synchrotron)

Presenters: HONKAVAARA, Katja (Deutsches Elektronen-Synchrotron); SCHREIBER, Siegfried (Deutsches Elektronen-Synchrotron); VOGT, Mathias (Deutsches Elektronen-Synchrotron); ROENSCH-SCHULENBURG, Juliane (Deutsches Elektronen-Synchrotron); KUHLMANN, Marion (Deutsches Elektronen-Synchrotron); SCHAPER, Lucas (Deutsches Elektronen-Synchrotron); GERTH, Christopher (Deutsches Elektronen-Synchrotron); TREUSCH, Rolf (Deutsches Elektronen-Synchrotron); ZEMELLA, Johann (Deutsches Elektronen-Synchrotron)

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