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Status of SIRIUS operation with users

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SIRIUS is a green-field 4th generation Synchrotron Light Source Facility based on a 3 GeV electron storage ring with 518 m circumference and 250 pm.rad emittance. It was designed, built, and is operated by the Brazilian Synchrotron Light Laboratory (LNLS/CNPEM). After completion of Phase-0 commissioning of the accelerators and first beam-lines, SIRIUS is now open for external users, with 6 fully operational beamlines, 4 close to start scientific commissioning, and 4 in different stages of installation. We report on the status of SIRIUS operation with users in the recently implemented top-up mode, with important upgrades in the orbit feedback systems and in the reduction of transient perturbations to the stored beam during injection process.

Funding Agency

Footnotes

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Yes

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