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SOLEIL machine status: operation and upgrade project

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The synchrotron SOLEIL is both a 2.75 GeV third-generation synchrotron light source and a research laboratory at the forefront of experimental techniques dedicated to matter analysis down to the atomic scale, as well as a service platform open to all scientific and industrial communities. We present the performance of the accelerators delivering extremely stable photon beams to 29 beamlines. The beam delivery schedule and the operation have been affected by the energy crisis. Shortages of cryogenic fluids and electronic components, coupled with a high inflation, are impacting the operation budget and the related projects. The update on the construction of the new low-energy footprint cooling station is presented. Finally, new developments and testing of prototype equipment related to the upgrade of the injector complex and the main storage ring are discussed.

Funding Agency

Footnotes

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