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The Novosibirsk fourth-generation light source SKIF development status

Monday 2 June 2025 16:00 (2 hours)

SKIF (Russian acronym for Siberian Circular Photon Source) –fourth-generation light source under construction in Novosibirsk. Natural emittance (at zero beam current and absent betatron coupling) of the SKIF is 72 pm at 3 GeV beam energy and 476 m circumference. Only two families of sextupoles provide horizontal and vertical dynamic apertures of 12 mm and 3.5 mm, respectively, and energy acceptance more than 5%. The flexibility of the lattice allows the beta functions to be changed in center of straight sections in a wide range from 0.5 m to 16 m, which opens up additional experimental possibilities for users. The paper presents status of development the SKIF project.

Footnotes

Paper preparation format

LaTeX

Region represented

Europe

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Author: BARANOV, Grigory (Russian Academy of Sciences)

Presenter: BARANOV, Grigory (Russian Academy of Sciences)

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