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Physical Design for SASE Beamlines of S3FEL

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The proposed Shenzhen Superconducting Soft X-Ray Free-electron Laser (S3FEL) aims at generating FEL pulses whose wavelengths ranges from 1 to 30 nm. As part of the first phase of S3FEL, two undulator beamlines working under SASE operation mode is planned. The two beamlines generate FEL pulses with wavelengths ranging from 1 to 3 nm and 2.3 to 15 nm, respectively. The physical designs and the FEL performances of these beamlines are described and analyzed in this paper.

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Footnotes

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Yes

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