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Stripline design for tune measurement in the ILSF Storage Ring

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The Iranian Light Source Facility Storage Ring is under design with a 528 m circumference and will store the electron bunches with 3 GeV energy to produce high-flux radiation that ranges from infrared to hard X-rays. Two Striplines are planned to be installed in the ILSF storage ring for beam tune measurement. The first one will be used for exciting the beam and the other for horizontal and vertical beam position measurements. In this paper, the design of the striplines for the ILSF storage ring is investigated. Each stripline is matched with 50Ω and has 4 strips (electrodes) that are placed at 45 degrees to the beam axis, the best geometry is achieved and optimized by CST Microwave Studio simulation.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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