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Design of button beam position monitor for the ILSF booster

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The Iranian Light Source Facility Booster is under design with a 504 m circumference and will accelerate the electron bunches from 150 MeV to 3 GeV. The 50 button-type beam position monitors (BPMs) are considered the non-destructive tools to measure the beam position in the ILSF booster. In this paper, the design of the BPM for the ILSF booster is studied. The BPM blocks have 4 buttons (electrodes) that are placed at 45 degrees to the beam axis. To choose the best geometry, the BPMs with different button diameters and gaps are simulated by the CST Microwave Studio and BpmLab.

Footnotes

Funding Agency

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Yes

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