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The low charge linac injector for the SAPS

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The SAPS is a fourth-generation light source which is planned to be built at the Guangdong Province, the south of China. On injection option for the SAPS is a booster ring with a low energy linac. The linac initially provides full charge bunches to booster and then the boosted beams are injected to the storage ring via swap-out injection. When the brightness of the storage ring become lower, the linac can provide low charge bunches to booster and those beams will be injected via longitudinal injection to the storage ring. In the paper, the low charge linac injector is described, which is well adapted the booster ring for the longitudinal injection.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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