



Contribution ID: 1150 Contribution code: TUPR52

Type: **Poster Presentation**

## Injection magnet system for Korea-4GSR facility

*Tuesday, 21 May 2024 16:00 (2 hours)*

A 4th generation storage ring based light source is being developed in Korea since 2021. It features  $<100$  pm rad emittance, about 800 m circumference, 4 GeV e-beam energy, full energy booster injection, and more than 40 beamlines which includes more than 24 insertion device (ID) beamlines. For extraction/injection to the booster and storage ring, it needs 4 septums, and 6 kickers. Particularly, for SR injection needs an eddy current septum with 1 mm septum thickness for 10 mrad bending, and a thick septum with 5 degree direct current driven septum. In this report, the design of the injection magnets (kickers, septums) for Korea-4GSR will be discussed.

### Footnotes

### Funding Agency

### Paper preparation format

LaTeX

### Region represented

Asia

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**Session Classification:** Tuesday Poster Session

**Track Classification:** MC7: Accelerator Technology and Sustainability: MC7.T09 Room Temperature Magnets