Contribution ID: **399** Contribution code: **THP058** Type: **Poster Presentation**

Optimization of kicker location for pseudo single bunch operation in SPEAR3

Thursday 14 August 2025 16:00 (2 hours)

The Pseudo Single Bunch (PSB) operation mode is being developed at Stanford Synchrotron Radiation Lightsource (SSRL) to address growing interests from time-resolved experiments. To accommodate both regular user and timing user experiments simultaneously, a fast electron kicker will be installed in one of the long straight sections at SPEAR3. This kicker will provide a large spatial separation between the main bunch trains and the camshaft bunch. The resulting x-ray spatial separation from undulator beamlines will be highly dependent on the location of the PSB kicker to be installed. We present here considerations of the PSB kicker location with beamline simulations for both low and high repetition rate modes.

Please consider my poster for contributed oral presentation

Yes

Would you like to submit this poster in student poster session on Sunday (August 10th)

No

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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