



Contribution ID: 1134 Contribution code: MOPB058

Type: **Poster Presentation**

## SPS-II machine imperfections and optimization

*Monday 2 June 2025 16:00 (2 hours)*

SPS-II was designed for low emittance storage ring with compact Double-Triple Bend Achromat (DTBA) cell. To ensure sufficient machine performance, realistic machine imperfections were simulated and incorporated into the optimization process. Thus the lattice solutions were made robust against imperfections, thereby reducing the machine's sensitivity. Solution with sufficient dynamic aperture and lifetime can be found in presence of imperfections.

### Footnotes

### Paper preparation format

LaTeX

### Region represented

Asia

### Funding Agency

**Author:** PULAMPONG, Thapakron (Synchrotron Light Research Institute)

**Co-author:** SUDMUANG, Porntip (Synchrotron Light Research Institute)

**Presenter:** PULAMPONG, Thapakron (Synchrotron Light Research Institute)

**Session Classification:** Monday Poster Session

**Track Classification:** MC2: Photon Sources and Electron Accelerators: MC2.A24 Accelerators and Storage Rings, Other