



Contribution ID: 1310 Contribution code: MOPA153

Type: **Poster Presentation**

Magnetic error corrections of the storage ring for the Southern Advanced Photon Source

Monday 8 May 2023 16:30 (2 hours)

The diffraction-limited storage ring (DLSR) of the Southern Advanced Photon Source (SAPS) use a large number of ultra-high gradient quadrupoles and sextupoles, which leads to the tight tolerance of beam parameters to magnetic errors. We showed the results of the magnetic error effects in previous published article. On this foundation, the magnetic error corrections are finished, including the closed orbit correction, beam optics correction and vertical dispersion correction.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: CHEN, Jianliang (Chinese Academy of Sciences)

Co-authors: LIU, Xingguang (Chinese Academy of Sciences); ZHAO, Yu (Institute of High Energy Physics); LIU, Weihang (Institute of High Energy Physics); LI, Xiao (Institute of High Energy Physics); JIAO, Yi (Institute of High Energy Physics); WANG, Sheng (Institute of High Energy Physics)

Presenter: CHEN, Jianliang (Chinese Academy of Sciences)

Session Classification: Monday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A05: Synchrotron Radiation Facilities