



Contribution ID: 1285 Contribution code: MOPA147

Type: **Poster Presentation**

Booster conceptual design of the Southern Advanced Photon Source

Monday, 8 May 2023 16:30 (2 hours)

The Southern Advanced Photon Source is a diffraction-limited storage ring at middle energy. The popular injector which includes a low energy Linac and a full energy booster is proposal. The concept design of the booster is presented in the paper. The booster is a high intensity synchrotron accelerator. The impedance model is obtained and the instability threshold is predicted.

Funding Agency

This work was supported by the Guangdong Basic and Applied Basic Research Foundation, China (Project: 2021B1515140007)

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: HUANG, Liangsheng (Institute of High Energy Physics)

Co-authors: CHEN, Jianliang (Chinese Academy of Sciences); LIU, Weihang (Institute of High Energy Physics); LIU, Xingguang (Chinese Academy of Sciences); HAN, Yanliang (Institute of High Energy Physics)

Presenter: LIU, Xingguang (Chinese Academy of Sciences)

Session Classification: Monday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A04: Circular Accelerators