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Improvement of PLS-II photon absorbers

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In synchrotron accelerators, managing the intense photon flux generated by bending magnets is very important for maintaining the accelerator's performance. The emitted synchrotron radiation, characterized by its high intensity and broad spectrum, imposes significant thermal and structural demands on accelerator components. Photon absorbers are essential to effectively block excess photons, ensuring stable operation and extending the lifespan of the vacuum components.

In this poster, I would like to introduce the new shape and analysis results to improve the performance of the vertical-type photon absorbers operating in PLS-II.

Footnotes

photon absorber

Paper preparation format

Word

Region represented

Asia

Funding Agency

Author: LEE, Sangbong (Pohang Accelerator Laboratory)

Co-authors: CHOI, Hosun (Pohang Accelerator Laboratory); KIM, Jaehoon (Pohang Accelerator Laboratory); HONG, Mansoo (Pohang Accelerator Laboratory); HA, Taekyun (Pohang Accelerator Laboratory)

Presenter: LEE, Sangbong (Pohang Accelerator Laboratory)

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