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Laser-based cleaning of photocathode at SXFEL

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The Shanghai soft X-ray Free-Electron Laser user facility has open to users since 2023. The electron beam is generated by Cu photocathode, integrated in an S-band electron gun. As the photocathode quantum efficiency drops to less than $1e-5$, photocathode cleaning technology based on drive laser is used to improve the performance of the photocathode.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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