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Beam commissioning of the HEPS Linac

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The High Energy Photon Source (HEPS) is a synchrotron radiation source of ultrahigh brightness being built in China. Its accelerator complex is composed of a 6-GeV storage ring, a full energy booster, a 500-MeV Linac, and three transfer lines. The Linac is an S-band normal conducting electron linear accelerator with available bunch charge from 0.5 nC up to about 10 nC. The Linac installation was completed in July 2022 and high-power RF conditioning was finished in September 2022. Physics quantity based high-level applications have been developed for the HEPS Linac using our own platform Pyapas. The beam commissioning of the Linac is scheduled from December 2022 to March 2023. Detailed beam commissioning experiences and results of the HEPS Linac will be presented in this paper.

Funding Agency

Footnotes

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Yes

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