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Development progress of high-level applications for the HEPS

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To meet the beam commissioning requirements of the High Energy Photon Source (HEPS), a brand-new framework called Pyapas has been developed based on pure Python. All high-level applications (HLAs) for the HEPS will be developed using Pyapas. The beam commissioning of the Linac started on March 9, 2023, and the HLAs performed excellently, helping the Linac meet its design specifications successfully and pass acceptance testing. By June 2023, the development of the HLAs for the transport line and the booster was completed, and several multi-system integration tests were performed to ensure normal operation after the HLAs went online. Beam commissioning of the booster began in late July and successfully met design specifications in late November. The storage ring HLAs are currently under development, and expected to be completed by mid-2024. This paper provides a detailed overview of the recent development progress of the HEPS HLAs and the upcoming development roadmap.

Footnotes

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