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Design of HEPS beam diagnostics

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HEPS is a fourth generation light source which has horizontal emittance around 34pm.rad to gain the high brilliance photon beam, this ultra-low emittance brings many engineering challenges for beam instrumentation. The resolution of the beam position measurement and the beam size measurement is need to reach sub-micro meter. The large current and multi-bunches need bunch by bunch feedback system to cure beam instabilities. This paper will present an overview of beam instrumentation.

Footnotes

Funding Agency

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Yes

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