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Beam profile monitor design at HEPS storage ring

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High Energy Photon Source (HEPS) is a 6 GeV ultralow-emittance light source, the transverse beam sizes of the storage ring will be less than 10 μm . In order to measure such small beam sizes in both directions, a beam diagnostic beamline with two crossed cylindrical Kirkpatrick–Baez (KB) mirrors was designed. Before that, a test KB imaging system was installed at SSRF to test the performance of KB mirrors. By varying the beam sizes with different skew quadrupole settings, different beam images were observed, the horizontal beam sizes were coincidence with the theoretical values. In this paper, the performance of the test KB system will be introduced, the HEPS diagnostic beamline design will be also introduced.

Footnotes

Funding Agency

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Yes

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