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Diagnosics visible beamline at SESAME storage ring

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Visible light range of synchrotron radiation is a versatile diagnostics tool for accelerator studies and measurements. SESAME's storage ring has a dedicated diagnostics visible light beamline from 6.5-degree beam port of bending magnet source point. The beamline will host in future a time-correlated single photon counting unit to measure the bunch filling pattern, fast gated camera and a streak camera for longitudinal diagnostics. Recently, the beamline has been extended to be operational from outside the tunnel (dedicated hut) to allow more flexible studies with direct source imaging and a double-slit interferometry for vertical beam size measurement and study transverse instabilities. In this paper we give an overview of the design of the beamline, modifications and present first results.

Footnotes

Funding Agency

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Yes

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