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## Diagnostics 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 hutch) 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**

## I have read and accept the Privacy Policy Statement

Yes

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