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## The design of beam instrumentation system of SILF

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Shenzhen Innovation Light-source Facility (SILF) is designed to be the so-called forth generation synchrotron radiation light source operating at 3.0 GeV, 300 mA, and with the emittance less than 100 pm-rad. With the increase in luminosity of the light, higher stability of the electron beam is required, which may also result in increased measurement diversity and accuracy. Here, an overview of the SILF beam instrumentation system is provided, along with detailed descriptions of its key technology, including the Beam Position Monitor (BPM) and electronics, transverse feedback kicker and electronics, and beam transverse size measurement. Additionally, the future development of the beam instrumentation system is discussed.

### Footnotes

### Funding Agency

### I have read and accept the Privacy Policy Statement

Yes

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