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## Measurement of a Infrared Synchrotron Radiation of Beam Density Profile and it's Fluctuations

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Results are presented of measurements of the equilibrium radius and the minor cross-section sizes of the ring-shaped electron bunch.

A multichannel diagnostic system based on measurement of the synchrotron radiation and designed for investigation of the dynamics of the electron ring compression is described.

The system includes an optical channel; an infrared radiation detector; an amplifier unit; circuits for control; and connection to a computer, which processes the collected information in the real time environment.

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