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Transverse Beam Position Monitoring and Polarimetry with a Compton Backscattering Polarimeter

Wednesday 10 September 2025 16:00 (2 hours)

The ELSA facility at the University of Bonn uses a storage ring to accelerate polarized electrons up to 3.2 GeV. To monitor the polarization degree of the stored beam a Compton polarimeter is used to analyze the profile of the back-scattered beam of gamma rays. In addition to a silicon microstrip detector with vertical resolution, state-of-the-art pixel detectors are tested for both, polarimetry and monitoring of the electron beam's long-term position and angular stability. The current status of the polarimeter performance is presented.

Footnotes

Funding Agency

I have read and accept the Conference Policies

Yes

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