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Introduction of key performance indicators for the GSI accelerator facility

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The GSI Facility consists of several accelerators, offering the distinctive capability to provide different beams with varying characteristics to a range of experiments simultaneously. In order to facilitate the monitoring of machine performance across diverse beam production chains and experiments, a Key Performance Indicator (KPI) matrix has been introduced. The CRYRING@ESR team has carried out initial KPI evaluations for their ring. Initial analysis has identified missing information and features in the archiving system and beam diagnostic models to enable automated tracking of machine performance. This paper will present detailed definitions of KPIs to enable quantitative accelerator performance measurement, an assessment of their implementation, and an outline of future developments.

Footnotes

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