

Optics Measurements, Corrections and Modeling for High-Performance Storage Rings



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FAIR project and optics challenges

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Beam loss control is an important issue in all superconducting accelerators. In the FAIR project the requirement of beam loss control becomes demanding by the complications created from the high intensity. The response of the beam to the linear and nonlinear machine optics is magnified by the space charge. Issues of optics and resonance control (compensation) during storage and acceleration becomes essential for machine performance. In this talk these issues are addressed.

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