

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



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Chromatic measurements in RHIC and LHC

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In RHIC, the phase advance between the two interaction points is optimized for an initial design beta. *This may not hold true as RHIC presently operates with a considerably reduced beta.* Chromatic optics measurements from RHIC are presented the enlarged beating is evident for reduced beta*. Phase advance changes between the IPs are proposed as a first attempt to reduce the model chromatic beta-beating. Recent measurements are performed to investigate the impact on the single beam lifetime and momentum aperture for the “modified” lattice. Measurements from the LHC are also discussed.

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