

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



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LOCO Overview

Monday 20 June 2011 16:00 (20 minutes)

The LOCO (Linear Optics from Closed Orbits) algorithm is used to find and correct errors in the linear optics of storage rings. This technique has been used to correct the optics of many storage rings. I will give examples of using LOCO to correct beta functions and dispersion, correct coupling, measure impedance, and correct transport line optics. I will describe constrained fitting, which improves the quality of LOCO fitting results for many storage rings.

Presenter: SAFRANEK, James (SLAC)

Session Classification: Experience from light sources and damping rings