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ESRF optics correction tools

Wednesday 1 June 2022 15:05 (25 minutes)

The presentation will show the techniques developed to perform commissioning-like simulations for the ESRF-EBS upgrade. In particular alignment specifications are updated respect to the past. Instead of specifying girder-to-girder errors, simulated surveys of the storage ring were used, providing a more complete and simple to use information. Also, the relative impact of different magnet families did not show anything particularly useful for installation and operation, and all simulations were thus resumed in a single final value. The described commissioning-like sequence of simulations is preliminarily applied to the FCC-ee V10 lattice optics, showing a less than trivial commissioning or tight alignment tolerance.

Simulations of non linear optics correction were done and tested in the ESRF Storage ring and simulated also for the FCC-ee ring.

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