

Update on SuperKEKB Optics

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Thanks to the **O**ptics **M**easurements and **C**orrections Team at CERN

Plan

Context

β -beating

LER Amplitude Detuning

- Some analysis were missing at the last FCC meeting
 - <https://indico.cern.ch/event/1433104/>

- Namely:
 - Comparison of TbT β -beating vs LOCO
 - Model comparison of amplitude detuning

Plan

Context

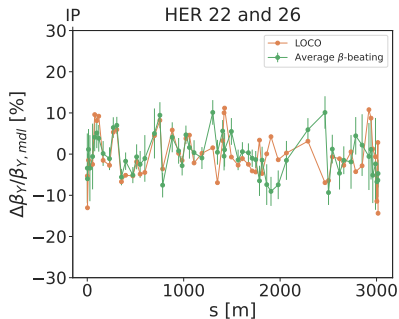
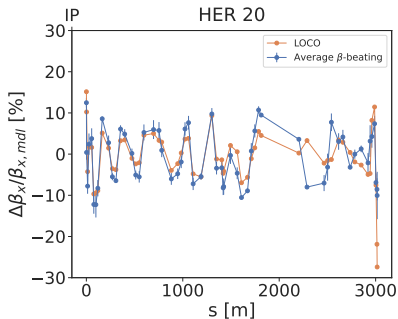
β -beating

HER Squeezed 8mm

LER Squeezed 8mm

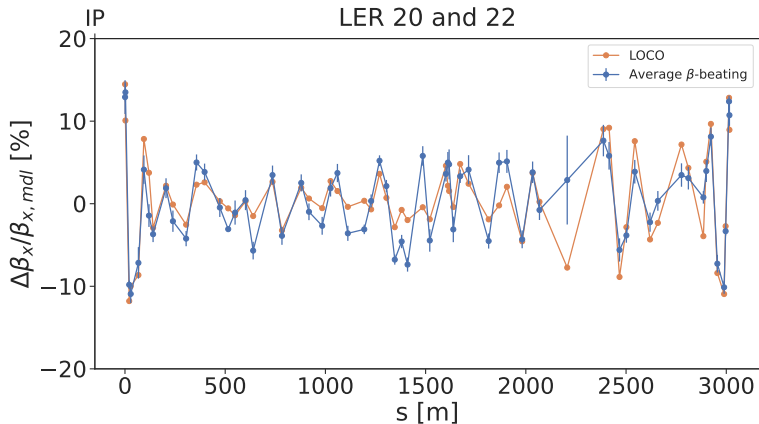
LER Amplitude Detuning

HER Squeezed 8mm



- Good agreement for HER at 8mm

LER Squeezed 8mm



- Good agreement for LER at 8mm
- Beating at IP is similar for TbT and LOCO

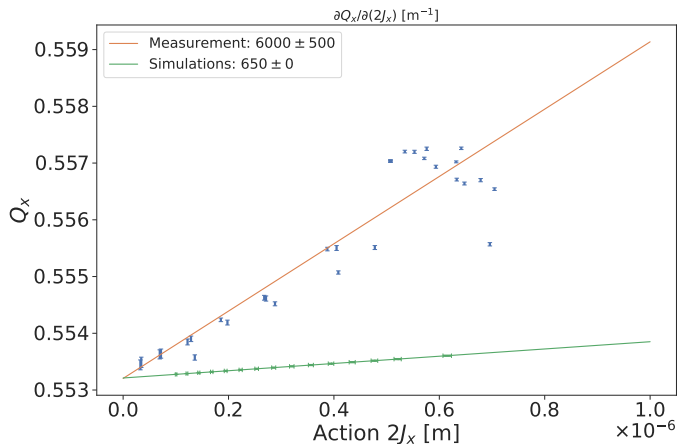
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LER Amplitude Detuning



- One order of magnitude larger in real life