



Contribution ID: 54

Type: **not specified**

Progress and challenges of PETRA IV fast orbit feedback system

Tuesday 20 June 2023 17:00 (30 minutes)

A fast orbit feedback system is under development for the upcoming PETRA IV ring of DESY. It is integral to achieving a diffraction-limited photon beam quality in this fourth-generation light source. The current focus is to optimize the designs of subsystems per the required performance, i.e. 1 kHz disturbance rejection of the feedback system. The challenges encountered in designing high bandwidth and latency-optimized systems are discussed.

Summary

Primary author: MIRZA, Sajjad Hussain (MSK (Strahlkontrollen))

Co-authors: DURSUN, Burak (MSK (Strahlkontrollen)); SCHLARB, Holger (MSK (Strahlkontrollen)); CHRISTMANN, Jan-Magnus (Technische Universität Darmstadt); PFEIFFER, Sven (MSK (Strahlkontrollen))

Presenter: MIRZA, Sajjad Hussain (MSK (Strahlkontrollen))

Session Classification: Session 6