



Contribution ID: 11

Type: **Contributed talk**

PETRA III Operational Performance and Availability in 2023

Tuesday 27 August 2024 17:30 (15 minutes)

At DESY the Synchrotron Light Source PETRA III offers scientists outstanding opportunities for experiments with hard X-rays of exceptionally high brilliance since 2009. Parallel to operation with high availability, a comprehensive study program supports hardware and software developments for the forthcoming PETRA IV upgrade. Key aspects in 2023 were the development of commissioning tools and the installation of a prototype PETRA IV 500 MHz Higher Order Mode (HOM) damped cavity. In view of the campuswide infrastructure provisions expected in the next years in parallel to the ongoing beam operation at PETRA III, a series of vibration tests were conducted to assess the impact of anticipated construction activities on beam stability. This paper provides a detailed description of the operation in 2023, reviews the availability and fault statistics and gives an outlook to the next runs.

I plan to submit also conference proceedings

Yes

Primary authors: SAHOO, Gajendra Kumar (MPY (Beschleunigerphysik)); KEIL, Joachim (MPY (Beschleunigerphysik)); Dr SCHAUMANN, Michaela (MPY (Beschleunigerphysik)); WANZENBERG, Rainer (MPE (PETRA))

Presenter: WANZENBERG, Rainer (MPE (PETRA))

Session Classification: Mikrosymposium 11/2: SR facilities: Updates and New Facilities

Track Classification: 11. Synchrotron radiation facilities: Facility updates and new facilities