



Contribution ID: 128

Type: **Poster**

Comparative Vacuum Simulations for a DLSR Upgrade of PETRA III

Tuesday 19 June 2018 18:00 (20 minutes)

“PETRA III is a third generation, 2.3 km long synchrotron radiation source. While initial studies for a conversion of PETRA III towards a diffraction-limited storage ring are ongoing, first ideas on the vacuum performance are assessed in this paper. Comparative simulations between preliminary magnetic lattice upgrades and MAX IV are performed using simplified geometries and ray-tracing, transfer-matrix as well as Monte-Carlo methods, respectively. Future ideas including test setups and facilities are outlined.

Primary author: PLAMBECK, Nils (DESY)

Co-authors: Mr BÖSPFLUG, Ralph (DESY); Dr LEDERER, Sven (DESY); LILJE, Lutz (DESY)

Presenter: PLAMBECK, Nils (DESY)

Session Classification: Poster Session Tuesday

Track Classification: Vacuum in Accelerators