

Vacuum-related Operational Experience from PETRA III

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PETRA III is a third generation synchrotron light source situated at DESY in Hamburg, Germany. Since its commissioning in 2009 and extension in 2015, the 2.3 km long storage ring has been the basis of one of the world's brightest light sources of its kind, and it is continuing to do so with respect to its future upgrade to PETRA IV. Throughout the years in operation, a lot of experience was gained. We will address the operational experience acquired between 2014 and 2024, with a focus on availability, examples of vacuum-related failures and modifications of the vacuum system. Moreover, a summary of NEG-related tests in the framework of PETRA IV will be presented. These comprise the evaluation of 12 partially NEG-coated dipole chambers that were installed at PETRA III in 2019 without in-situ activation.

Summary

Primary authors: LILJE, Lutz; PLAMBECK, Nils (DESY Hamburg); Mr BÖSPFLUG, Ralph (DESY Hamburg)

Presenter: PLAMBECK, Nils (DESY Hamburg)

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