

# 12th Beam Telescopes and Test Beams Workshop



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## Studies on the Future DESY Test Beam Facility

DESY operates the 3<sup>rd</sup> generation synchrotron radiation facility PETRA III. The DESY II booster is used to inject electrons into the PETRA storage ring either for the initial fill or top-up operation. When it is not used for these purposes, DESY II drives three target-based test beams exploiting the pair production principle. The next update of the PETRA storage ring will change the requirements for the injected beam significantly and will require different modes of operation. In this contribution we present different upgrade plans for test beams at the existing synchrotron as well as at a new synchrotron that has been discussed in the scope of the PETRA IV project. The advantages and disadvantages will be evaluated and the results of initial studies will be shown.

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