

7th Beam Telescopes and Test Beams Workshop



Contribution ID: 51

Type: **not specified**

Photon tagged beam line at the DESY II test beam

Wednesday 16 January 2019 09:20 (20 minutes)

The three beam lines of the DESY II Test Beam Facility provide electrons with a selectable momentum of 1-6 GeV/c and are widely used in the R&D community of HEP. A feasibility study for a photon tagged beam line was performed this year. Here, secondary bremsstrahlung photons are generated in the test beam area and electrons are deflected by the Big Red Magnet of beam line TB21. With such a setup the electron/gamma separation capability of calorimeter can be tested. In addition it provides an indirect energy measurement of the bremsstrahlung photons. Simulations and measurement results are presented.

Authors: DUNNE, Katherine (University of California, Santa Cruz (US)); DREYLING-ESCHWEILER, Jan (Deutsches Elektronen-Synchrotron (DESY))

Co-author: STANITZKI, Marcel (Deutsches Elektronen-Synchrotron (DE))

Presenter: DUNNE, Katherine (University of California, Santa Cruz (US))

Session Classification: Facilities & Infrastructure