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BEST - BEAMLINE FOR EDUCATION AND SCIENTIFIC TRAINING - A NEW VUV BEAMLINE AT *BESSY II*

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Keywords: VUV, beamline, photoelectron spectroscopy, training

In the following description a high-resolution 5m normal–incidence–monochromator beamline behind the dipole DIP 03–1B at BESSY II is introduced.

The beamline 'BEST' is designed for high resolution photoelectron spectroscopy utilizing a Scienta SES-2002 electron analyzer, which is permanently placed as an endstation at the beamline.

The energy range of the beamline is 3-40 eV. A high precision manipulator on a closed-cycle He cryostat allows angle resolved measurements over 2π sterian below 10 K.

On this beamline students and young scientists will be introduced and continuously qualified into the fascinating possibilities of synchrotron radiation research. Optical design of the beamline and preliminary performance results will be discussed.