

12th Beam Telescopes and Test Beams Workshop



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A New Test Beamline at Photon Factory Advanced Ring (PF-AR) in KEK

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KEK has constructed a new test beamline at Photon Factory Advanced Ring (PF-AR). The electron accelerator ring has been used for PF users for a long time. Recently, carbon targets are installed to extract high energy electrons and to build the test beam line for particle and nuclear physicists. The top-up injection is performed for the accelerator ring. Therefore, electrons are continuously extracted without any bunch structures for 24 hours. The present beam rate is 1 kHz order and further improvement is expected. The user operation started just one year ago. KEK accepted around 20 proposals for 3 periods (5 months in total) so far. Some proposals are educational ones. In the workshop, the features of the beamline are introduced and some obtained results in test experiments are presented.

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