

SP1: Considerations for Low-alpha operation in the BESSY II Booster

Friday 15 July 2016 09:40 (3 minutes)

It is becoming increasingly apparent that the existing injector systems at BESSY II require an upgrade to meet the high demands of BESSY VSR. A high gradient voltage beat is intended to create the complex longitudinal phase space for the storage of both long and short pulses. High injection rates into this scheme will only be possible using shorter bunches from the Booster. This contribution highlights the benefits of low-alpha operation in the Booster in order to create shorter bunch lengths.

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Session Classification: Session 3: Beam Dynamics and Photon Sources