

Conceptual Design of a Booster PS for DESY-III,
IHEP* - DESY** Project Team compiled by S. IVANOV*
- In frames of IHEP-DESY Collaboration, IHEP has completed a physical design study of a 800 MeV Booster PS for DESY-III, the first circular accelerator among the HERA p-injectors. Construction of the ring can increase space-charge limit of DESY-III by a factor of 5. Getting brighter p-beams is one of future options presently discussed of the HERA luminosity upgrade. The paper outlines technical details of the proposed Booster synchrotron.

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