

Design Issues of the LHC as Injector

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To take advantage of existing facilities and experience, the reuse of the LHC is considered as an option for the High Energy Booster (HEB) for injection into the proposed FCC-hh collider. The requirements and the changes needed to use the LHC as an injector are summarised. In the initial studies one requirement was to minimise changes to the LHC layout and the lattice. The main issues and the proposed solutions are presented.