

# Perspectives for beam-beam- compensation and collimation using electron beams for FCC-hh

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High intensity low energy electron beams have been suggested at the Tevatron as actuator on the hadron beams (being called electron lenses). At FNAL these lenses have been used for various machine experiment and they served regularly during Tevatron operation for abort gap cleaning. CERN is presently studying the usage of such lenses for Halo diffusion of the LHC beams and for the compensation of long range beam beam forces.

The presentation will describe the hardware of such lenses, the present state of preparation at CERN for the above applications and it will suggest steps to evaluate the potential for FCC-pp.

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