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Layout and optics for a collimation insertion in FCC-ee

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The design parameters of the FCC-ee foresee operation with a total stored beam energy of about 20MJ, exceeding those of previous lepton colliders by almost two orders of magnitude. Given the inherent damage potential, a halo collimation system is studied to protect the machine hardware, in particular superconducting equipment such as the final focus quadrupoles, from sudden beam loss. In this talk, a preliminary layout and optics for a collimation insertion are presented, taking into consideration constraints from other systems such as the polarimeter.

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