International Review on the e-lens concept readiness for integration into the HL-LHC baseline



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Functional specifications and parameter requirements

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The present target specifications for the LHC electron lenses for enhanced beam collimation are reviewed. After a brief presentation of the basic working principle of hollow e-lenses, which illustrates how they will be used to improve the beam collimation through an active control of beam tails, the key parameters defined in the conceptual design report are presented. Uncertainties on these parameters are discussed and the table of parameter set used for the present technical design are given. The status of ongoing studies on different powering schemes for the e-beam, and of their effects on beam halos and core, are also reviewed.

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