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## The FCC-ee design study: luminosity and beam polarization

The FCC-ee accelerator is under study within the FCC design study as a possible first step towards the ultimate goal of a 100 TeV hadron collider. It is a high luminosity  $e+e-$  storage ring collider, designed to cover energies of around 90, 160, 240 and 350 GeV ECM (for the Z peak, the WW threshold, the ZH and  $t\bar{t}$  cross-section maxima respectively) leading to different operating modes. We report on the current status of the design study, on the most promising concepts and relevant challenges. The expected luminosity performance at all energies, and first results on transverse polarization for beam energy calibrations will be presented.

### additional information

On behalf of the FCC design study

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