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Precision Polarimetry for Electron Positron Linear Colliders

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Beam polarisation is an important ingredient of the physics program of future Electron Positron Linear Colliders. In order to fully exploit the benefits of the polarised beams, the luminosity weighted average polarisation needs to be known to 0.25% or even 0.1% at the ILC, while a few percent seem achievable at CLIC. We will present the polarimetry concept for the Beam Delivery Systems of both machines, including the design of the Compton polarimeters and recent progress in their calibration strategies, the possibilities to calibrate the absolute scale of the polarimeters against $e+e-$ collision data and the necessary simulations of spin dynamics in the BDS and at the $e+e-$ interaction point.

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