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Metrology requirements for the integrated luminosity measurement at ILC

Precision measurement of the integrated luminosity (L) at future Higgs factories, including ILC, is of crucial importance for the cross-section measurements, and in particular for the line-shape measurements at the Z-pole. Since there is no up-to-date estimate of the integrated luminosity uncertainties arising from metrology effects at ILC, here we review a feasibility of the targeted precision of L at foreseen ILC center-of-mass energies: 91.2 GeV, 250 GeV, 500 GeV and 1 TeV.

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