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Top and Electroweak physics at the linear collider facility

Thanks to the extended energy range and beam polarization, the linear option for future e^+e^- collider facility offers unique opportunities for precision electroweak studies and top quark measurements. Beam polarization is not only essential for many observables but also allows better control of background and reduction of systematic uncertainties. The extended energy range of the linear collider facility is especially important for the precision top quark studies above the pair production threshold, including direct measurement of the top Yukawa coupling and global analysis of the precision measurements in the EFT framework. Presented in this contribution are the results of the ILD concept group based on the ILC running scenario.

Secondary track

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