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Electroweak precision measurements at CLIC

The Compact Linear Collider (CLIC) is an option for a future electron-positron collider operating at centre-of-mass energies from a few hundred GeV up to 3 TeV. Following an overview of precision electroweak measurements possible at a high-energy electron-positron collider like CLIC, details will be presented on two recent physics benchmark analyses based on full detector simulations and assuming centre-of-mass energies of 1.4 and 3 TeV.

Vector boson scattering gives insight into the mechanism of electroweak symmetry breaking. The processes $e^+e^- \rightarrow WW\nu\nu$ and $e^+e^- \rightarrow ZZ\nu\nu$ were studied using fully hadronic events which provide the full kinematic information on the final-state bosons. The expected precisions on anomalous gauge couplings are extracted. The process $e^+e^- \rightarrow \gamma\gamma$ allows to search for deviations from QED. The expected sensitivities to a finite electron size and other scenarios are discussed.

Experimental Collaboration

CLICdp Collaboration

Presenter: WEBER, Matthias Artur (CERN)**Session Classification:** Poster session**Track Classification:** Top and Electroweak Physics