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Complementarities between Higgs and electroweak measurements at future lepton colliders

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With Higgs measurement prospects reaching the permil level at future lepton colliders, their interplay with the electroweak sector of the standard-model effective field theory is expected to become relevant. We perform the first rather complete effective-field-theory analysis covering jointly the Higgs and electroweak sectors. It allows us to investigate the impact of electroweak parameter uncertainties in Higgs coupling determination; to examine what electroweak measurements are needed to achieve the full potential of the precision Higgs physics program; and conversely to discuss the possible improvement on electroweak parameters otherwise brought by Higgs measurements.

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