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Oblique corrections, when $m_W = m_Z \cos \theta_W$

Oblique parameters, S, T, and U, are a popular way to parameterize Beyond the Standard Model (BSM) physics contributions to the observables of the electroweak sector. For this parametrization to work, however, one assumes that the BSM model preserves the custodial symmetry, i.e. it must have a tree-level relation $m_W = m_Z \cos \theta_W$, just as the Standard model. Inspired by the CDF collaboration's measurements of the W boson mass, we introduce an analogous parameterization that compares predictions of two models when both models violate custodial symmetry.

Type of contribution

Talk

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