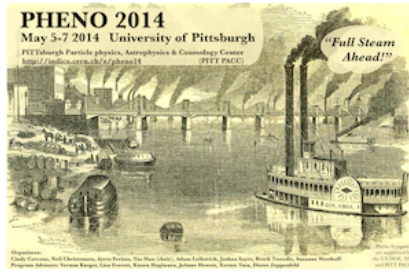


# Phenomenology 2014 Symposium



Contribution ID: 95

Type: not specified

## Electroweak Effective Operators and Higgs Physics

Monday 5 May 2014 18:00 (15 minutes)

We derive bounds from oblique parameters on the dimension-6 operators of an effective field theory of electroweak gauge bosons and the Higgs doublet. The loop-induced contributions to the  $\Delta S$ ,  $\Delta T$ , and  $\Delta U$  oblique parameters are sensitive to these contributions and we pay particular attention to the role of renormalization when computing loop corrections in the effective theory. Limits on the coefficients of the effective theory from loop contributions to oblique parameters yield complementary information to direct Higgs production measurements.

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**Session Classification:** SM Higgs II