27th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2019)

Contribution ID: **187** Type: **Oral**

Consistent Constraints on SMEFT from Dileptons and Flavor

Thursday, 23 May 2019 14:00 (20 minutes)

I present constraints derived in a consistent and conservative way on the Wilson coefficients of the SMEFT from dilepton data at Tevatron and the LHC, and present the calculation of loop-level matching needed to utilize flavor data to constrain flavor-blind SMEFT effects. These are important new sources of constraint that will ultimately feed in to a global analysis of generic, model-independent heavy new physics based on the totality of data available in particle physics, a promising modern-day update to the LEP ElectroWeak Working Group efforts.

Primary author: SHEPHERD, William (Sam Houston State University)

Presenter: SHEPHERD, William (Sam Houston State University)

Session Classification: Alternatives to Supersymmetry

Track Classification: Alternatives to Supersymmetry