



Contribution ID: 1071

Type: **Parallel session talk**

## SMEFT beyond $O(1/\Lambda^2)$

*Wednesday 28 July 2021 10:30 (15 minutes)*

“In this talk I’ll talk about truncation errors in the Standard Model Effective Field Theory (SMEFT) paradigm —meaning errors from higher terms in the EFT expansion. The main tool I’ll use to tackle this type of uncertainty is special operator basis called the “Geometric SMEFT”, or geoSMEFT. I will explain the benefits of the geoSMEFT basis and go through some preliminary studies of the impact of  $O(1/\Lambda^4)$  terms on observables such as Higgs partial width to photons and Z-pole physics.”

### First author

Adam Martin

### Email

amarti41@nd.edu

### Collaboration / Activity

SMEFT

**Primary author:** MARTIN, Adam (University of Notre Dame)

**Presenter:** MARTIN, Adam (University of Notre Dame)

**Session Classification:** T07-T09: Combined: Top, Electroweak and Higgs Physics

**Track Classification:** Higgs Physics