

Suggestions to improve the note

- “Higgs basis” not a complete or well defined basis.
Call it what it is, a few interaction terms in an Effective Lagrangian.

The note states it is not a basis, then calls it a basis.

This is due to the dreamy possibility it could be completed to an actual basis someday, not the reality of what it is in the note.

- No consensus exists as to the nature of precision constraints in the full linear SMEFT. Constraint analyses are changing over time.

Experiments should be encouraged to perform a general EFT analysis, impose constraints a posteriori in a manner that can also change over time (if possible).

- “SILH basis” has been argued to have “advantages” in previous working group documents compared to the Warsaw basis: See Yellow report 1307.1347pg 153–157

These “advantages” claims, and related “SILH” reasoning, are flawed see: 1412.6356, 1409.7605, 1312.2014, 1305.0017. Relevant literature should be cited as a correction to these past claims in the Yellow report.