



Contribution ID: 986

Type: **Parallel session talk**

Precision from Diboson Processes at FCC-hh

Wednesday 28 July 2021 09:30 (15 minutes)

Thanks to its high luminosity and center of mass energy, the future FCC-hh collider will allow us to probe processes with clean but rare final states that are unaccessible at the LHC. The study of diboson production processes poses a promising way of indirectly constraining New Physics in the context of the Higgs Boson. Specifically, the diphoton leptonic decay channels of the W h and Z h production processes are examples for the aforementioned clean but rare final states. I will discuss our study of these channels at the FCC-hh in the SMEFT framework and how doubly differential distributions can be used to gain even better sensitivity to certain higher dimensional EFT operators.

First author

Philipp Englert

Email

philipp.englert@desy.de

Collaboration / Activity

Theory

Authors: ENGLERT, Philipp (T (Phenomenology)); GROJEAN, Christophe (DESY); ROSSIA, Alejo (T (Phenomenology)); MONTULL, Marc (DESY); BISHARA, Fady Adibsamy (T (Phenomenology)); PANICO, Giuliano (Florence University and INFN Florence); Dr DELLE ROSE, Luigi (Florence U.); Dr DE CURTIS, Stefania (Florence U.)

Presenter: ENGLERT, Philipp (T (Phenomenology))

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

Track Classification: Top and Electroweak Physics