



Contribution ID: 129

Type: **Parallel Sessions**

Precision from Diboson Processes at FCC-hh

Tuesday 19 October 2021 15:10 (10 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.

Authors: ROSSIA, Alejo (Deutsches Elektronen-Synchrotron DESY); ENGLERT, Philipp (DESY Hamburg); GROJEAN, Christophe (DESY (Hamburg) and Humboldt University (Berlin)); BISHARA, Fady (DESY); PANICO, Giuliano (University of Florence and INFN Florence); DELLE ROSE, Luigi (University of Florence); MONTULL GARCIA, Marc (Deutsches Elektronen-Synchrotron DESY); DE CURTIS, Stefania (Universita e INFN, Firenze (IT))

Presenter: ROSSIA, Alejo (Deutsches Elektronen-Synchrotron DESY)

Session Classification: Parallel: Joint Future/BSM

Track Classification: Joint Future/BSM Higgs