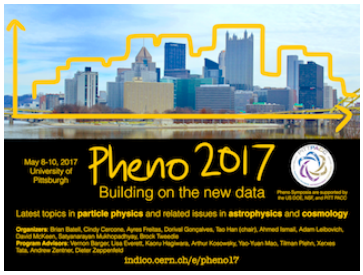

Contribution ID: **385** Type: **parallel talk**

Probing BSM physics in Vh production at LHC

Tuesday 9 May 2017 14:30 (15 minutes)

We analyze the hVV (V = W, Z) vertex in a model independent way using
Vh production. To that end, we consider possible corrections to the Standard Model Higgs Lagrangian, in the form of higher dimensional operators which parametrize the effects of new physics. In our analysis, we pay special attention to linear observables that can be used to probe CP violation in the same. By considering the associated production of a Higgs boson with a vector boson (W or Z), we use jet substructure methods to define angular observables which are sensitive to new physics effects, including an asymmetry which is linearly sensitive to the presence of CP odd effects.

Summary

Author: MOHAN, Kirtimaan (Michigan State University)

Presenter: MOHAN, Kirtimaan (Michigan State University)

Session Classification: BSM Higgs II