

## Portraying Double Higgs at the LHC

*Tuesday 20 August 2019 19:10 (10 minutes)*

We examine the discovery potential for double Higgs production at the HL-LHC in the  $b\bar{b}WW$  dilepton channel. Although dilepton channel suffers from the large backgrounds, we propose that it is possible to get signal significance improvement by adopting a deep learning frame work making full use of the relevant kinematics. The method can be generalized to other processes with similar final states.

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**Session Classification:** Parallel Session