

Double Higgs Boson Production in Association of Jets in the Triplet Higgs Model at the LHC

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This presentation offers new insights into double Higgs boson production accompanied by 2 and 3 jet events at the LHC within the framework of the Triplet Higgs Model. By integrating matrix elements into the parton-level Monte Carlo VBFNLO and utilizing Herwig 7 for parton shower matching, we provide a comprehensive analysis. Our study delves into the azimuthal angle correlations between tagged jets. The impact of parton shower matching is discussed.

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