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Study of WH process using different event generators

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In this paper, we study the angular features of the signal and background processes of the associated production of the Higgs boson with W-boson. Signal and background processes are generated using the CompHEP, POWHEG and PYTHIA generators. Monte Carlo data is processed in ROOT software. We also compared the shape of the distribution of kinematic variables obtained from different generators. And it was found that the shape of these distributions is almost the same for different generators. The deviation of about 30% of POWHEG from other generators can be explained by the fact that it uses NLO correction when generating events

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