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STXS binnings for CP sensitivity (20'+10')

Monday 28 November 2022 11:00 (20 minutes)

The current Simplified Template Cross-Section (STXS) categorization leaves STXS analyses insensitive to CP-odd contributions in Higgs boson production, which are predicted by several models beyond the Standard Model. This presentation proposes to categorize events with two jets additionally via the dPhijj observable to make future Run 2+3 analyses sensitive to CP violation. The feasibility of such a splitting based on our present sensitivity is also discussed

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