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Statistical analysis in ttbar resonance search with ATLAS

Saturday, 1 December 2018 16:05 (15 minutes)

This study focuses on the statistical analysis of the ongoing $t\bar{t}$ resonance search at ATLAS, which aims at searching for new heavy particles decaying to a top quark pair in fully hadronic final state with full Run 2 data. In this study, BumpHunter is employed to search for deviation from a smoothly falling background prediction, while Frequentist CLs method is used to set upper limit for cross section in absence of significant deviation.

Session

Works in Progress (15+5 min)

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Session Classification: Works in Progress