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TrackJet Number Identification in HHbbtautau Boosted Channel

VALENTINA LEE, California State University, Fresno, ATLAS TEAM — This note summarizes studies of improvement of Monte Carlo simulation in the research of HH \rightarrow bb $\tau\tau$ by identifying the number of b track jets which are pointing to the fat jets associating with different assuming Graviton's mass from s $\sqrt{13}$ =13TeV pp collisions collected by the ATLAS detector at the Large Hadron Collider. This result is also applied on improving the agreement between data and Monte Carlo simulation. In addition, different preselections are applied on our current simulation to find the better agreement with data.

Valentina Lee California State University, Fresno

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