



Contribution ID: 226

Type: not specified

Unfolding Higgs-top CP measurement

Tuesday 9 May 2023 17:45 (15 minutes)

We explore CP-violation in Higgs-top interactions via the semileptonic $pp \rightarrow t\bar{t}h$ channel with $h \rightarrow \gamma\gamma$ at the high luminosity LHC with machine learning-based unfolding techniques. We invert the event simulation chain, unfolding the detector-level events to construct and encode observables in their relevant partonic reference frame to improve CP sensitivity.

Authors: GONÇALVES, Dorival (Oklahoma State University); ACKERSCHOTT, Jona (Heidelberg University); BARMAN, Rahool Kumar (Oklahoma State University); HEIMEL, Theo (Heidelberg University); PLEHN, Tilman

Presenter: BARMAN, Rahool Kumar (Oklahoma State University)

Session Classification: Higgs I