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Unfolding Higgs-top CP measurement

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We explore CP-violation in Higgs-top interactions via the semileptonic $pp \to t\bar{t}h$ channel with $h \to \gamma\gamma$ 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.

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