

## Recent Progress in Single Top-Higgs (tH) Production with the ATLAS detector

*Sunday, 21 December 2025 15:00 (20 minutes)*

Recent measurements of single top-Higgs (tH) production at the LHC show consistent excesses above Standard Model predictions across multiple decay channels. While still statistically limited, these observations are intriguing given tH's unique sensitivity to the relative sign between top Yukawa and W boson couplings. This talk summarizes the current experimental landscape, and ongoing dedicated tH analyses and combination efforts.

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