

# 2025 Summary

TileCal-IFIC End of Year Meeting

Marta Lanzac Berrocal - 16 December 2025



# $\chi \rightarrow SH \rightarrow 4b$

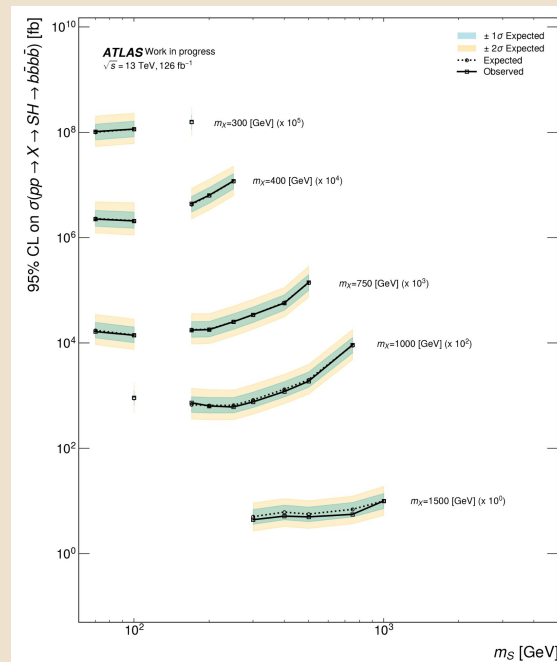
- Resolved channel:

- Unblinded approval!
- My contributions:

- Studies for optimisation of the WP from 77% to 85%
- Background estimation and post-fit studies

- Boosted channel:

- Starting now
- Goal: public the paper by the end of 2026



# Trigger

- Trigger Menu:
  - Offline tasks fro menu update
  - Shifts:
    - April 29th - May 5th ([report](#))
    - May 20th - 27th ([report](#))
    - September 16th - 23rd ([report](#))
    - November 4th - 11th ([report](#))
- Tau Trigger:
  - Tau Trigger Run 3 performance paper





# Miscellanea



- - Stay at CERN: 20th April - 4th June
  - Talks:
    - **The Mitchell Conference on Collider, Dark Matter, and Neutrino Physics 2025:**
      - Analysis with boosted objects at ATLAS and CMS ([slides](#))
    - **QCD@LHC 2025**
      - Higgs-boson cross-section measurements (fiducial, STXS,..) and their combinations at ATLAS and CMS ([slides](#))
    - **XVII CPAN DAYS. VALENCIA**
      - Search for a resonance decaying into a scalar particle and a Higgs boson in the final state with four bottom quarks at ATLAS ([slides](#))





Merry  
Christmas