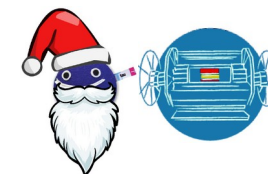


2025 Activities



Luca Fiorini

Tile Calorimeter Christmas Meeting
16/12/2025



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



UNIVERSITAT
DE VALÈNCIA

IFIC INSTITUT DE
FÍSICA
CORPUSCULAR



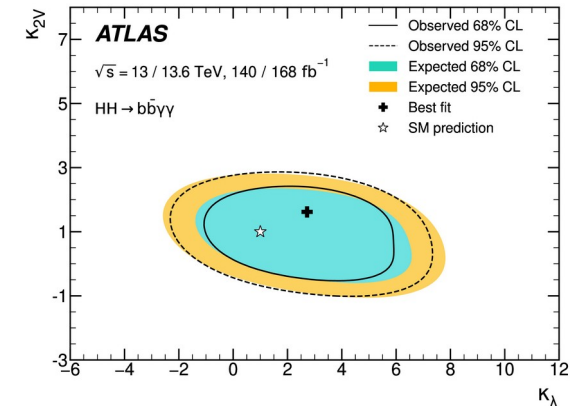
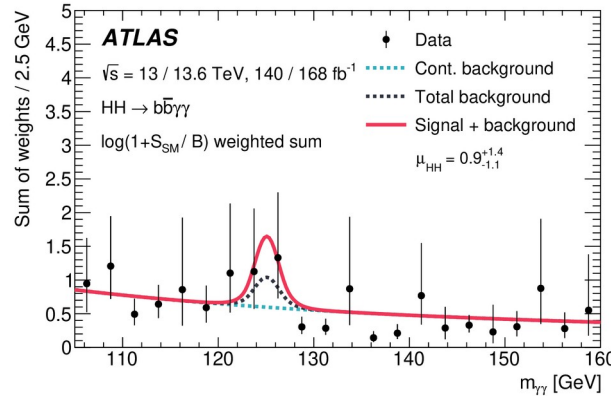
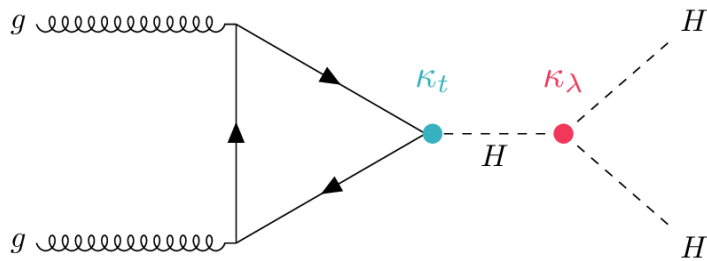
**EXCELENCIA
SEVERO
OCHOA**

2025 selected activities



Contributions to DiHiggs physics:

- First HH search with Run 2 + Run 3 data of the LHC! ([arXiv:2507.03495](https://arxiv.org/abs/2507.03495))



Antonio Gomez PhD thesis:

- “Unveiling the Higgs sector with tau-leptons: differential cross-section measurements and searches for lepton-flavor-violating decays with the ATLAS detector”

TileCal:

- Performance and timing went pretty smooth in 2025.
- Henric was re-elected Tile Project Leader (March 2026-Feb 2028).
- Upgrade: we are in pre-production passed P2UG review without issues. Most of the PPr and CPM components procured.

2025 selected activities



Projects:

- HIGH-LOW (TED) and TILEVAL (ASFAE) projects ends this year.
- New ATLAS Operations and Physics project (PID2024-156321NB-I00) started.
- CERN-CIEMAT agreement on-going till June 2026.

Group:

- The University group was approved ([link](#), it is needed for some University calls). It would be nice to have a picture of the group.

Events:

- The COMCHA session of the CPAN days was very successful.
- We have now also a COMCHA webpage and logo (www.comcha.es)



2026 expectations



Physics:

- Finish more analyses with Run 3 data and finish more theses.

TileCal:

- End of Run-3 and start of decommissioning.
- PRR in Q1 for the Preprocessor

DRD:

- DRDCalo-Spain in January ([link](#))

Image credits: ChatGPT

