

Highlights of the year

Francesco Curcio
TileCal - IFIC End of Year Meeting
16/12/2025



CSIC

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



UNIVERSITAT
DE VALÈNCIA

IFIC INSTITUT DE
FÍSICA
CORPUSCULAR

**EXCELENCIA
SEVERO
OCHOA**



The ASFAE/2022/008 research projects acknowledge the financial support from the MCIU with funding from the European Union NextGenerationEU and Generalitat Valenciana.

ASFAE
ASTROFÍSICA Y FÍSICA
DE ALTAS ENERGÍAS



Financiado por
la Unión Europea
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R
Plan de Recuperación,
Transformación y Resiliencia

**GENERALITAT
VALENCIANA**
Conselleria de Educació,
Universitats i Empie

GVA NEXT
Fondu Next Generation en la Comunitat Valenciana

Technical work

$HH \rightarrow b\bar{b}\gamma\gamma$ (partial Run 3):

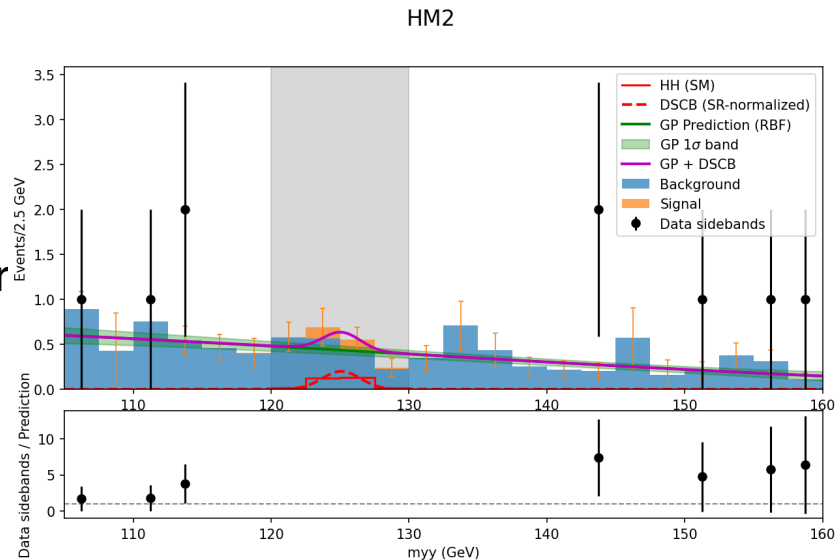
- Supervised Ryan in the latest stage of the analysis
- Contributions to the analysis code
- Some drawbacks, but publication early next year

$(H)H \rightarrow b\bar{b}\gamma\gamma$ (full Run 3):

- Preliminary results with Gaussian Processes for continuum background estimation

AMG:

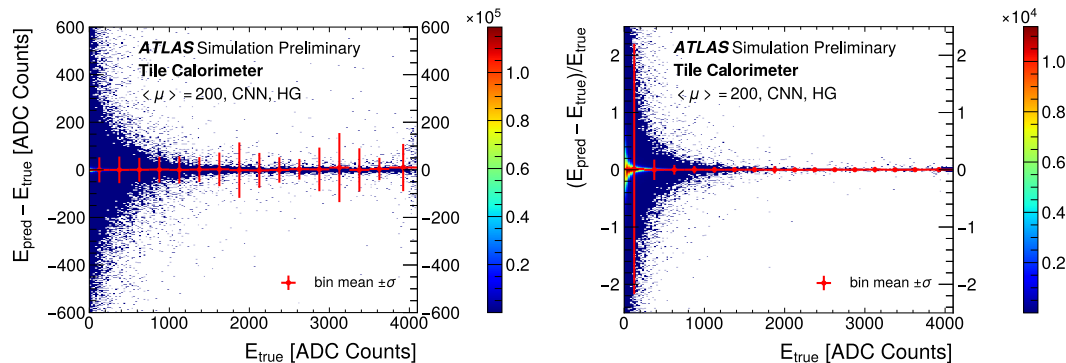
- Started as Easyjet coordinator in March
- Initially used only in diHiggs analyses (previously HHFramework), now also others joined



Technical Work

TileCal:

- Signal reconstruction studies (continuing from last year)
- Machine learning-based
- Presented results in EuCAIFCon 2025



Trigger:

- 4 shifts as a Trigger Menu expert on-call
- Work on offline tasks for Trigger Menu
- Trigger Menu update talk at TDAQ week in Bucharest



Work-related:

- My contract is ending in 14 days
- Will be in Valencia in January, totally on vacation
- Very happy I had the chance to visit a lot of places

Human-related:

- It was very nice working here for the past 2 years
- Met a lot of wonderful people during this time
- Learned a lot



 Happy holidays!