

# TileCal/TDAQ End of Year Meeting

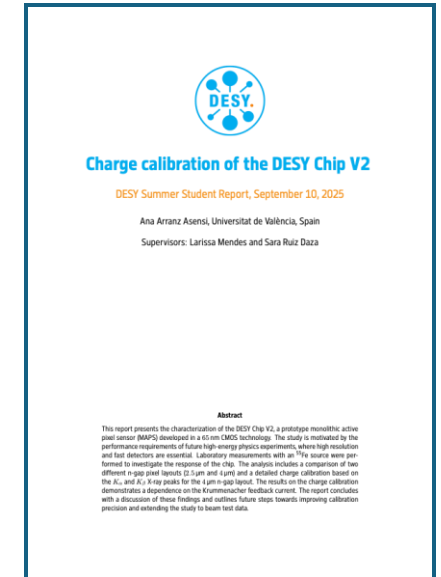
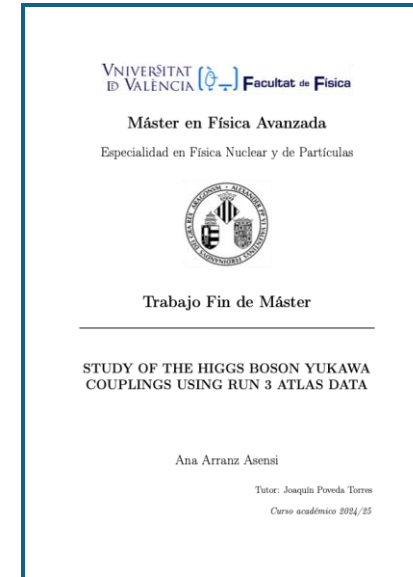
16/12/2025

Ana Arranz Asensi



# TileCal/TDAQ End of Year Meeting

- Completed the **Advanced Physics Master's degree 15/07/2025**
- DESY Summer Student Program 22/07/2025 – 11/09/2025**
- Started my PhD on **01/11/2025**



**A**dvanced data processing **T**echnologies for **E**xploring **NE**w Physics in future p**A**rticle colliders (**ATENEA**) (CIPROM/2024/69).



- Support **Future Circular Collider (FCC)** development.
- Contribute to **ECFA Detector R&D Roadmap** in **DRD6** (Calorimetry) and **DRD7** (Electronics).

# TileCal/TDAQ End of Year Meeting

- **Characterization of SiPMs**

- **64-channels** device.

Study of gain dependence on temperature and overvoltage. 

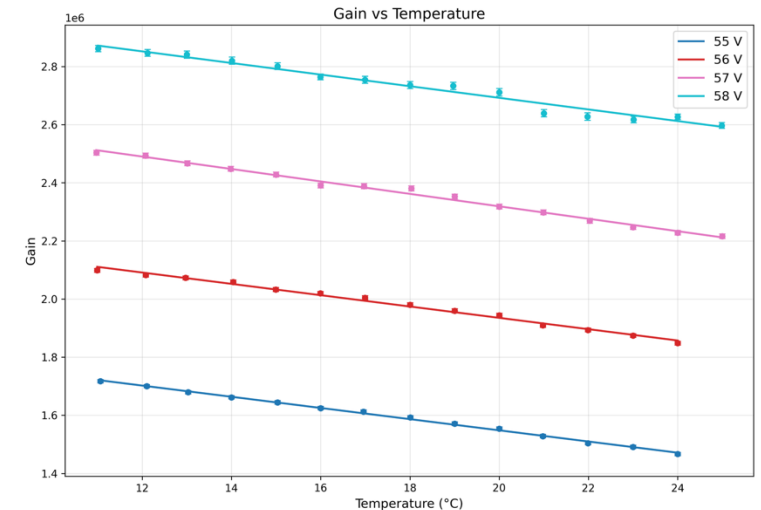
Presentation at **XVII CPAN Days – Red de Futuros Colisionadores.**  
**19/11/2025**

- **16-channels** device. – **In progress**

- Simultaneous reading of more channels through other amplifiers, development of a prototype with scintillators, ... – **To do**

- **Simulations**

Implementation of **Pandora Particle Flow Algorithm** in the **ALLEGRO** detector simulation. - **In progress**



## MPPC Characterization for FCC Calorimetry

**A. Arranz, F. Carrió, C. Fernández, X. Poveda, I. Redondo, A. Ruiz, A. Valero, J. Valls**  
XVII CPAN Days – Red de Futuros Colisionadores  
19 November 2025

