



SEXTEN CENTER  
FOR ASTROPHYSICS  
RICCARDO GIACCONI



# Advances in Modeling High-Energy Astrophysical Sources: Insights from recent multimessenger discoveries

30.06.2025 - 04.07.2025

Sexten – Dolomites Italy



- A beautiful location !





- Thanks to the Organising Committee (Elisabetta, Giacomo, Patrizia)
- Thanks to the HandsOn tutors (Stefano, Tarek, Guillem, Axel, Rossella, Carla)
- Thanks to Gabriella Deconi and the Riccardo Giacconi Sexten Center
- Thanks to our 'supporter'



## The knowledge arrow

**Data  
collection**

**Data  
analysis**

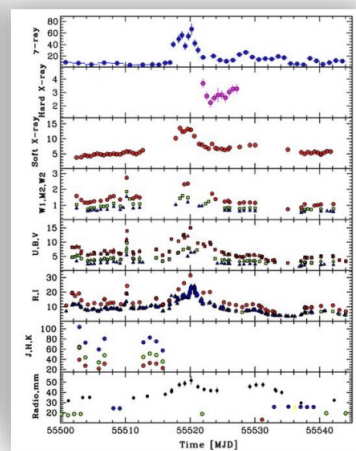
**Interpretation**

**And then?**

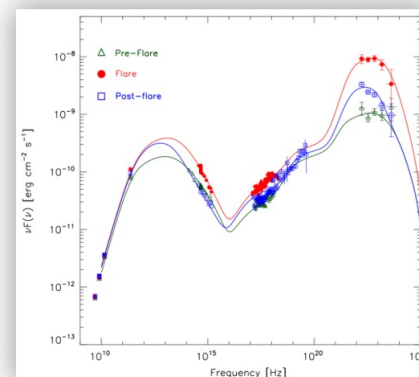


**See Tarek's hands-on**

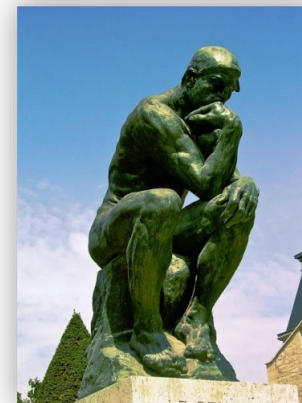
stefano.vercellone@inaf.it



**See Guillem's hands-on**



**See Axel's hands-on**





- Scientific program! (30 min talks – 23+7)
  - Gamma-ray observations from the sky and the ground
    - Fermi, IACTs, CTAO, EAS, ASTRI
  - Gamma-ray source modeling
    - GRB, AGN, Galactic Sources
  - Multimessenger observations and modeling
    - Cosmic Rays, Gravitational Waves, Neutrinos
  - Search for Dark Matter
  - Multiwavelength connections
    - SVOM, IXPE, newAstrogam



- Hands On (1hr)
  - High Level Gamma-ray Analysis
    - Gammapy
    - How to compare data and models?
  - Science communication
    - Academic presentations
    - How to write a research grant?
    - Science and Society: why communicate scientific research
    - Astroparticle physics Science communication



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- Contributed talks (15 min, 10+5)
  - Different Science topics
    - GRB, AGN, Galactic Sources (+), Technical talks



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- Indico page (has been populated with talks) ...





- Thanks to Betta and Giacomo!



- Thanks to the LOC .. And the Sexten Center ...



- Thanks to all of you!

