

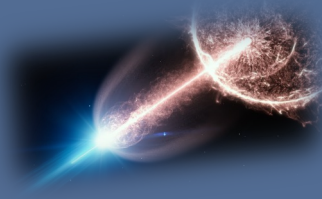
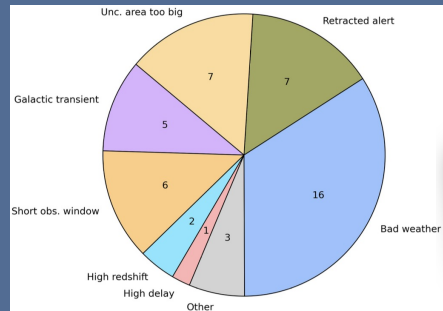


# TeV transient sources with H.E.S.S.

Pierre Pichard

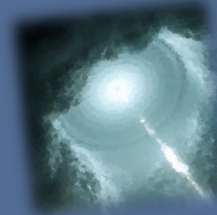
## Gamma-Ray Bursts

- Quite new phenomenon : 5 GRBs @ VHE (2 by H.E.S.S.)
- All alerts followed by H.E.S.S. are available on public github page <sup>[1]</sup>
- Population study of past alerts (to spot main reasons for non-observation)<sup>[2]</sup>
- Optimization of strategy for poorly localised GRBs (on-going)

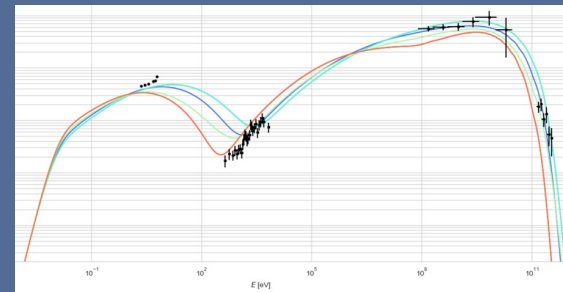


## Active Galactic Nuclei

PKS 1510-089

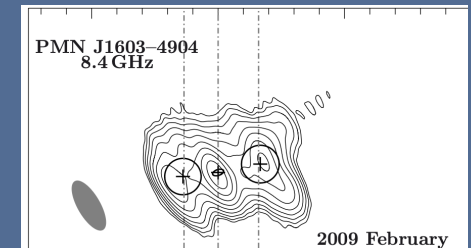


- Source detection
- Estimation of variability
- Combination with data from other bands
- Time-dependent modelling, to fit observations in multiple bands at several times of the flare



## And more...?

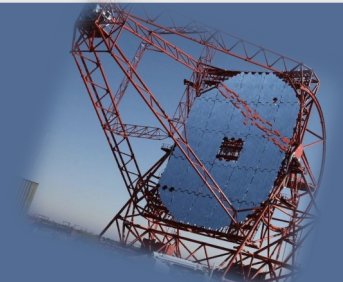
- Discovery of PMN J1603-4904 <sup>[3]</sup>
- Compact Symmetric Object
- 1st discovery by IACT
- MWL data campaign, analysis on-going...
- An eye out for other *never-seen-before* types of sources !



[1] <https://github.com/grbhess/grbhess.github.io/>

[2] Cornejo, B. ..., Pichard, P. et al for the H.E.S.S. Collaboration, ICRC25 Proceeding

[3] Astronomer's Telegram, Atel #17205, H.E.S.S. Collaboration



Journées ATPEM, 2 Octobre 2025