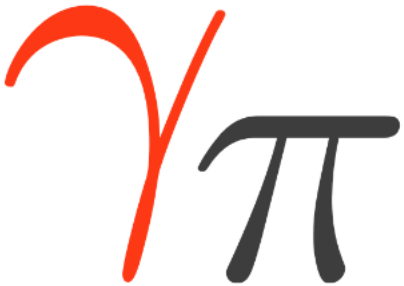

A **Python** package for
**gamma-ray** astronomy

# GAMMAPY as
# PROTOTYPE for CTA SCIENCE TOOLS

# used for the
# FIRST DATA CHALLANGE

# DATA CHALLENGE 1



- ✓ DC1 goals
  - ✓ Familiarize people with the CTA data analysis
  - ✓ Favor tool development (γπ & ctools)
- ✓ set of un-blinded sky models for simulations can be found here
- ✓ The expected DC1 output is:
  - ✓ a list of requirements (sky models & tools) to be able to quantify CTA capabilities on the main science cases
  - ✓ an assessment of current capabilities of the tools
  - ✓ Reproducible analyses as showing case
- ✓ Data released end of August 2017

# DC1 STATUS



- ✓ 20-30 people involved in DC1 data analysis
- ✓ Results presented at the Orsay CM
  - ✓ Galactic SWG
  - ✓ Cosmic Ray SWG
  - ✓ Extragalactic SWG
  - ✓ Dark Matter SWG
  - ✓ Tools capabilities
- ✓ DC1 is coming to the end:

  time to write the closing-out document

  deadline July 25th

# DC1 OUTCOME



From a tool perspective (ignoring comments on the sky models)

- ✓ Compatible results for gammapy and ctools in 1D/2D analyses of not-too-crowed regions
- ✓ Still few issues to be solved in 1D analysis:
  - ✓ Energy binning for 1D spectral analysis
  - ✓ Lightcurves
- ✓ Gammapy still missing 3D analysis

→ highest priority for this week

# GOALS for THIS WEEK



- ✓ Run the first 3D analyses
  - ✓ Roberta for HESS J1702
    (mildly extended source in crowed region)
  - ✓ Fabio for RX J1703?? Not mandatory
- ✓ Fix the spectral point computation (GH 1368 & Christoph's talk)
- ✓ Fix the lightcurve class and include LC ULs (see GH 1424)

- ✓ Release 0.8 and re-run everything with the new release