

gammapy

An open-source **Python** package for gamma-ray astronomy

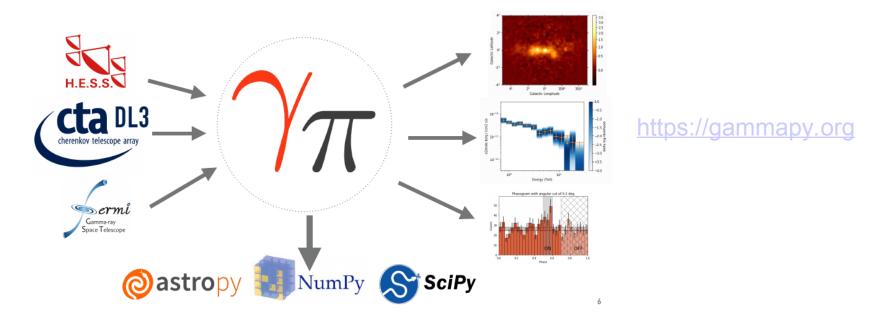
General user call – October 26th, 2020

B. Khélifi, on behalf of the gammapy Coordination Committee



A Science Tools package

Python package aiming to produce HE/VHE astrophysical products

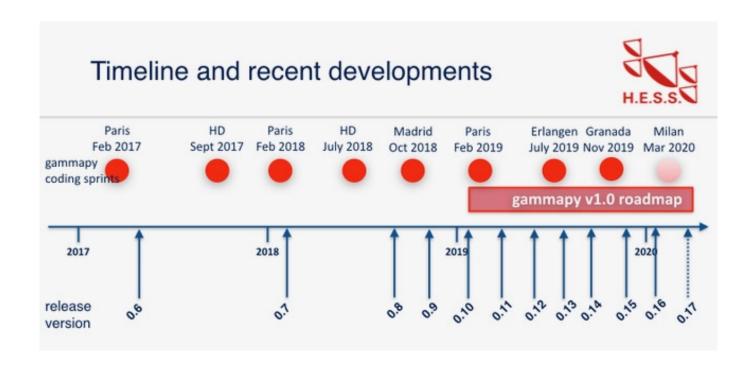


 gammapy is proposed to the CTA Observatory to be its official Science Tools package



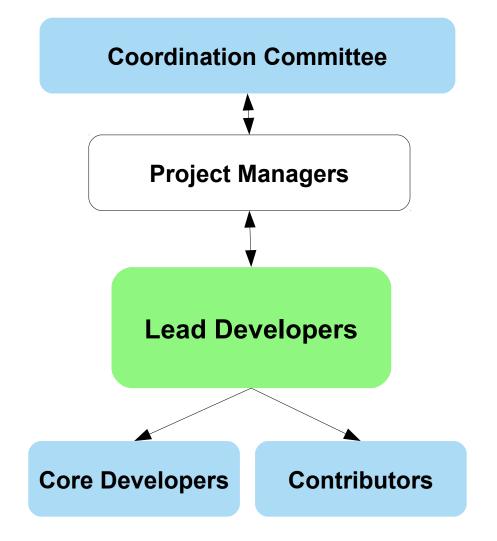
The genesis

From H.E.S.S. to MWL/MM data analysis





Project organization









B. Khelifi

C. van Eldik





A. Donath

R. Terrier



Towards MWL/MM joint analysis

- Joint analysis of reduced high-level data allow better statistical constraints, and the treatment of (relative) systematics uncertainties is possible
 - No more use of 'flux points', computed by using pre-defined spectral shape
 - Use of the spatial information from different instruments
 - Data without a significant detection are used and bring statistical constraints
- The software design of gammapy permits joint analysis
 - First tests already made with
 Fermi-LAT/HESS/MAGIC/VERITAS/FACT/, HESS/HAWC,
 HESS/Chandra, CTA/Km3Net
- The Coordination Committee wishes to open the project to the whole HE/ VHE community











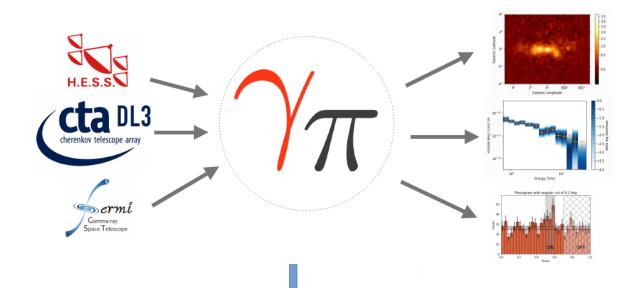








Meeting agenda



Gammapy - a Python package for (not-only) γ-ray astronomy

A. Donath (MPIK, Heidelberg)

Input data formats for gammapy: DL3 and beyond

R. Terrier (APC, Paris)

Joint analysis of the Crab nebula

C. Nigro (IFAE, Barcelona)