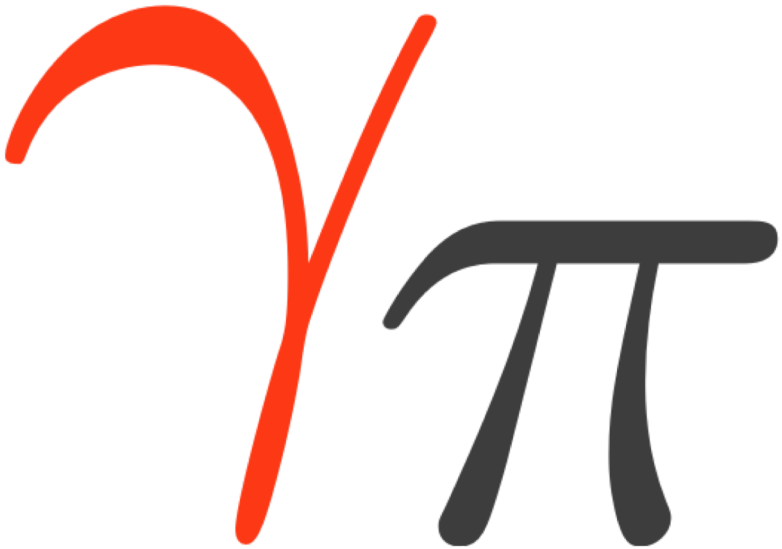

High-level interface

Status and plan

Granada 18th -22nd November 2019

Status

- Provides the means to simple-code a config file driven analysis workflow
- Uses JSON Schema to validate settings
- 1D/3D templates for settings
- Short number of actions
  - get_observations()
  - get_datasets()
  - set_model(filename=model.yaml)
  - run_fit()
  - get_flux_points()
- Documentation built using YAML file

Improvements for Gammapy 1.0

- Simpler configuration file / simpler syntax
- Move code and responsibilities to other classes
  - observations selection and filtering
  - data reduction / fitting / flux points
  - model settings and handling
- User settings handling and validation
  - move values in *dict* to `Analysis` properties
- Consistency in parameter units
- Documentation and built-in help
- Code quality

Additions for Gammapy 1.0

- Ring background estimation method
- I/O features for observations/datasets would allow session management

  Start analysis from reduced datasets

- CLI Tasks *(mainly for non-interactive processes)*

  - `gammapy analysis config` (creates YAML config file)
  - `gammapy analysis run` (runs current config file)

Vision

- The `Analysis` class cannot do everything
- It does a subset of what Gammapy does
- It is only part of the high-level interface
- High-level interface
  - Analysis
  - SkyModels
  - Datasets
  - Fit