



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
- CLI Tasks *(mainly for non-interactive processes)*
 - `gammapy analysis config` (creates YAML config file)
 - `gammapy analysis run` (runs current config file)
- I/O features for observations/datasets
would allow session management
- Start analysis from reduced datasets

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`