

MWL fitting

Notes taken by F. Acero during the discussion on MWL & MM fitting.

Max raised the issue about how to load different file format into the same memory representation

Decouple the IO, the LL , and the internal dataset representation

Fermipy is using a different statistics than in gammapy so either we recode a new LL or call fermipy in gammapy.

Fermi analysis document. Notes on the binned LL by Eric Charles:

https://indico.cern.ch/event/783425/contributions/3335026/attachments/1814171/2966040/binned_like.pdf

But not just a different function. More with weights and how you do the convolution order.

Notes on weights to reduce the impact of diffuse emission at low energies:

https://fermi.gsfc.nasa.gov/ssc/data/analysis/scitools/weighted_like.pdf

Global consensus in the discussion for how handle multi-instruments :

Gammapy could handle the treatment of all gamma-ray instrument and X-ray analysis would be done via a gammapy plugin.

Make sense if most instruments like MAGIC, HESS, SWGO, LHAASO, etc are VODF and can work with gammapy

For X-rays we could have a plugin around sherpa.