

GammaLib - Feature #604

Allow fitting for point source positions in Fermi-LAT analysis

11/30/2012 11:47 AM - Knödlseider Jürgen

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assigned To:	Knödlseider Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.5.0		
Description			
<p>So that, the positions of point source cannot be fitted in the Fermi-LAT analysis. Fitting should be enabled.</p> <p>There are two approaches, a fast and easy (but less precise approach) and an exact but slower approach.</p> <p>The PSF for point sources are precomputed using the GLATMeanPsf class. Formally, the content of GLATMeanPsf depends on the precise position of the source, but if the position is only changed slightly, the content should not really change. We could this adopt the response class so that the actual position and the position for which GLATMeanPsf was computed could differ. This is the fast and easy way.</p> <p>The exact way would be to recompute the content of GLATMeanPsf each time the position is changed. This takes some computing time, but maybe it's not so expensive at the end. At least, this method would be exact.</p> <p>We could test both and compare the speeds and precisions.</p>			
Related issues:			
Related to ctools - Bug # 2183: All pixels have the same TS value for Fermi-L...		Closed	08/26/2017

History

#1 - 11/30/2012 11:57 AM - Knödlseider Jürgen

- Subject changed from Allow fitting for point sources in Fermi-LAT analysis to Allow fitting for point source positions in Fermi-LAT analysis
- Description updated

#2 - 06/21/2016 10:18 PM - Knödlseider Jürgen

- Target version set to 1.2.0

#3 - 03/03/2017 10:15 AM - Knödlseider Jürgen

- Target version changed from 1.2.0 to 1.3.0

#4 - 06/06/2017 10:24 PM - Knödlseider Jürgen

- Target version deleted (1.3.0)

#5 - 10/19/2017 04:49 PM - Knödlseider Jürgen

- Related to Bug #2183: All pixels have the same TS value for Fermi-LAT analysis using cttsmap added

#6 - 10/19/2017 04:50 PM - Knödlseider Jürgen

- Status changed from New to Closed
- Assigned To set to Knödlseider Jürgen
- Target version set to 1.5.0
- % Done changed from 0 to 100

This is at the end a duplication of #2183. I therefore close this issue since #2183 is about to be closed.