

GammaLib - Action #1144

Use Prod2 FITS file for CTA response modelling

02/12/2014 06:17 PM - Knödlseider Jürgen

Status:	Closed	Start date:	02/12/2014
Priority:	Normal	Due date:	
Assigned To:	Knödlseider Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
The CTA Prod2 response file contain information that can be used for instrumental response modelling. It should be possible to use this information to create a GCTAModelBackground background model. Probably the recently added features that support background modelling in instrument coordinates can be used for this.			
Related issues:			
Related to GammaLib - Action # 1096: BackgroundModel from IRF		Closed	02/07/2014

History

#1 - 02/12/2014 06:21 PM - Knödlseider Jürgen

Check the extension BACKGROUND in inst/cta/caldb/data/cta/e/bcf/IFAE20120510_50h/irf_file.fits for the actual format.

#2 - 02/16/2014 03:21 AM - Knödlseider Jürgen

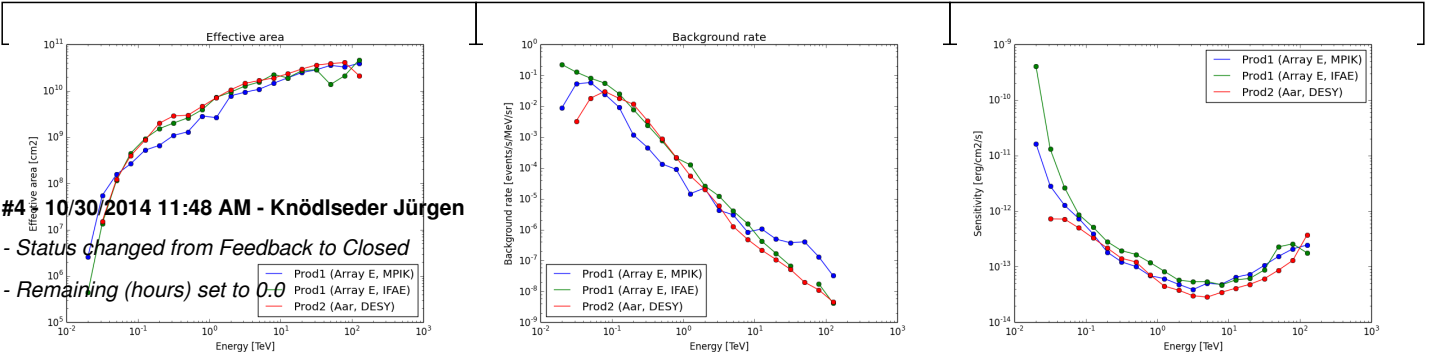
- Status changed from New to Feedback
- Assigned To set to Knödlseider Jürgen
- % Done changed from 0 to 100

The new GCTABackground interface and specifically the GCTABackground3D and GCTABackgroundPerfTable now handle this.

#3 - 02/16/2014 01:48 PM - Knödlseider Jürgen

- File cta_aeff.png added
- File cta_background.png added
- File cta_sensitivity.png added

Here a couple of figures comparing the various CTA responses using the GammaLib interface. Things look pretty reasonable. The plots have been obtained using the script show_response.py which is part of the ctools package.



Files			
cta_aeff.png	52.3 KB	02/16/2014	Knödlseider Jürgen
cta_background.png	63.4 KB	02/16/2014	Knödlseider Jürgen
cta_sensitivity.png	53.2 KB	02/16/2014	Knödlseider Jürgen