

# GammaLib - Action #1464

## Add default CTA response functions

05/19/2015 10:30 PM - Knödlseeder Jürgen

|  |                    |                        |            |
|--|--------------------|------------------------|------------|
| <b>Status:</b>   | Closed             | <b>Start date:</b>     | 05/19/2015 |
| <b>Priority:</b>   | Urgent             | <b>Due date:</b>       |            |
| <b>Assigned To:</b>  | Knödlseeder Jürgen | <b>% Done:</b>         | 100%       |
| <b>Category:</b>   |                    | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b>   | 1.0.0              |                        |            |
| <b>Description</b>   |                    |                        |            |
| As the CTA response functions are now becoming public they should be added to ctools and replace the former dummy response function. |                    |                        |            |

### History

#### #1 - 05/19/2015 10:43 PM - Knödlseeder Jürgen

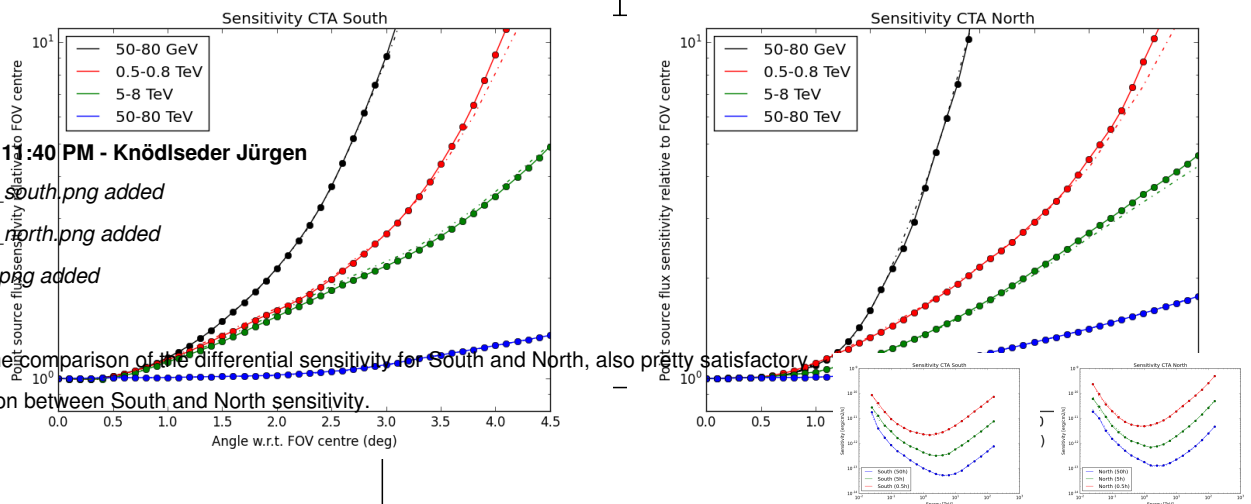
- File *offaxis\_south.png* added
- File *offaxis\_north.png* added
- Status changed from *New* to *In Progress*
- Assigned To set to *Knödlseeder Jürgen*
- Priority changed from *Normal* to *Urgent*
- % Done changed from *0* to *20*

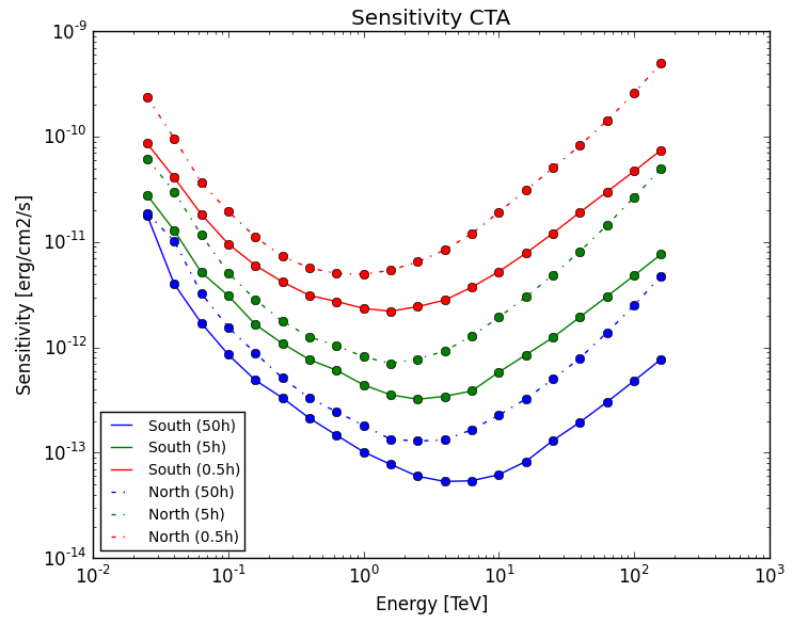
Here the offaxis dependence for the South and North response (50h). The dots and solid lines are the sensitivity drops estimated from the IRFs provided in ctools compliant FITS format, the dotted-dashed lines are the dependencies shown on the performance page. The correspondence is satisfactory.

#### #2 - 05/19/2015 11:40 PM - Knödlseeder Jürgen

- File *sensitivity\_south.png* added
- File *sensitivity\_north.png* added
- File *sensitivity.png* added

And here now the comparison of the differential sensitivity for South and North, also pretty satisfactory.  
 And a comparison between South and North sensitivity.





**#3 - 05/20/2015 12:30 AM - Knödseder Jürgen**

- Project changed from *ctools* to *GammaLib*

**#4 - 05/20/2015 12:30 AM - Knödseder Jürgen**

- Status changed from *In Progress* to *Closed*

- Target version set to *1.0.0*

- % Done changed from *20* to *100*

- Remaining (hours) set to *0.0*

The response has now been integrated in *GammaLib*.

**Files**

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|                       |         |            |                  |
|-----------------------|---------|------------|------------------|
| offaxis_south.png     | 68.5 KB | 05/19/2015 | Knödseder Jürgen |
| offaxis_north.png     | 67.9 KB | 05/19/2015 | Knödseder Jürgen |
| sensitivity_south.png | 57.6 KB | 05/19/2015 | Knödseder Jürgen |
| sensitivity_north.png | 58.1 KB | 05/19/2015 | Knödseder Jürgen |
| sensitivity.png       | 67.9 KB | 05/19/2015 | Knödseder Jürgen |