

GammaLib - Bug #2126

**TypeError: in method 'GCTAOnOffObservation\_likelihood', argument 5 of type 'double \*\*'**

06/16/2017 11:01 AM - Rodriguez Fernandez Gonzalo

<b>Status:</b>	Closed	<b>Start date:</b>	06/16/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Knödlseider Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.4.0		
<b>Description</b> Dear all,  I am testing the ON & OFF CTA observation. The fit goes well, but when I just try to obtain the likelihood value using:  <pre>fit_models = onoff_container.models() gradient = gammalib.GVector() curvature = gammalib.GMatrixSparse() npred = [] value = onoff_container[0].likelihood(fit_models, gradient, curvature, npred)</pre>  I get this error: TypeError: in method 'GCTAOnOffObservation_likelihood', argument 5 of type 'double **'  I have tried differents options to pass the npred variable, but I always get this error message.  I send you the python script with the xml files to reproduce the error msg.  Thanks in advanced! Gonzalo.			

History

#1 - 07/29/2017 03:52 AM - Knödlseider Jürgen

- Status changed from New to Feedback
- Assigned To set to Knödlseider Jürgen
- Target version set to 1.4.0
- % Done changed from 0 to 90

There was a Python typemap missing in the SWIG interface that prevented the acceptance of a Python float as an argument. I added the missing typemap and merged the change into the devel branch.

Note, however, that the method expects a single variable and not an array. Here is the code that works fine on my side:

```
fit_models = onoff_container.models()
gradient = gammalib.GVector()
curvature = gammalib.GMatrixSparse()
npred = 0.0
value = onoff_container[0].likelihood(fit_models, gradient, curvature, npred)
print(npred)
```

#2 - 07/31/2017 11:03 PM - Knödlseeder Jürgen

- Tracker changed from Support to Bug

#3 - 08/01/2017 02:05 PM - Knödlseeder Jürgen

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

Files

sim_model.xml	1.4 KB	06/16/2017	Rodriguez Fernandez Gonzalo
crab.xml	1.13 KB	06/16/2017	Rodriguez Fernandez Gonzalo
sim_and_analisis.py	2.22 KB	06/16/2017	Rodriguez Fernandez Gonzalo