

GammaLib - Bug #3440

Make sure that the spatial model value or normalisation is always taken correctly into account

11/07/2020 02:52 PM - Knödlseider Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	11/07/2020
<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>	2.0.0		
<b>Description</b>			
It seems that the spatial model value is not always taken into account, for example when simulation photons from a diffuse cube model.			
All spatial model methods should be checked to verify that the spatial model value is correctly taken into account. The same holds for the GSkyModel::flux() and GSkyModel::eflux() methods.			
<b>Related issues:</b>			
Related to GammaLib - Action # 3439: Add GSkyModel::flux() method that return...			<b>Closed</b> <b>11/07/2020</b>

History

#1 - 11/07/2020 03:38 PM - Knödlseider Jürgen

- Related to Action #3439: Add GSkyModel::flux() method that returns correct flux for diffuse cube models added

#2 - 03/15/2022 12:04 PM - Knödlseider Jürgen

- Status changed from New to In Progress

- Assigned To set to Knödlseider Jürgen

- % Done changed from 0 to 50

I checked the following models by inspecting the code:

- GModelSpatialDiffuseConst
- GModelSpatialDiffuseCube
- GModelSpatialDiffuseMap

The following models have no normalisation parameter:

- GModelSpatialEllipticalDisk
- GModelSpatialEllipticalGauss
- GModelSpatialEllipticalGeneralGauss
- GModelSpatialPointSource
- GModelSpatialRadialDisk
- GModelSpatialRadialGauss
- GModelSpatialRadialGeneralGauss
- GModelSpatialRadialProfileDMBurkert
- GModelSpatialRadialProfileDMEinasto
- GModelSpatialRadialProfileDMZhao
- GModelSpatialRadialProfileGauss
- GModelSpatialRadialRing
- GModelSpatialRadialShell

**#3 - 03/15/2022 12:04 PM - Knödseder Jürgen**

- *Status changed from In Progress to Closed*

- *% Done changed from 50 to 100*