

GammaLib - Action #4467

Generalise flux computation in GModelSpatial::flux for all types of regions

12/12/2023 09:15 AM - Knödseder Jürgen

Status:	Closed	Start date:	12/12/2023
Priority:	Normal	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.1.0		
Description			
<p>So far the GModelSpatial::flux method only works for circular regions and models. The method should be generalised so that it works for any kind of regions and models. This is probably best achieved by creating a model map for the spatial model and integrating the model map using the GSkyMap::flux() method, like in GModelSpatialDiffuseMap::flux():</p>			
<pre>// Compute flux in sky region double flux = m_map.flux(region) * m_value.value();</pre>			

History

#1 - 12/12/2023 10:18 AM - Knödseder Jürgen

- Status changed from New to Pull request
- % Done changed from 0 to 90

I implemented a scheme where an integration over the model bounding circle is done, checking for each evaluation whether the corresponding sky direction is contained within the specified region.

#2 - 01/24/2024 02:34 PM - Knödseder Jürgen

- Status changed from Pull request to Closed
- % Done changed from 90 to 100

Merged into devel