

GammaLib - Bug #4461

Correct GSkyRegionRectangle::compute\_solid\_angle

12/06/2023 04:28 PM - Knödlseider Jürgen

Status:	Closed	Start date:	12/06/2023
Priority:	Normal	Due date:	
Assigned To:	Knödlseider Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.1.0		
<b>Description</b> The solid angle in GSkyRegionRectangle::compute_solid_angle is currently computed using  <code>m_solid = m_width * m_height * gammalib::deg2rad * gammalib::deg2rad;</code>  which is not correct on the sphere. The correct formula is  <code>m_solid = m_width * gammalib::deg2rad * 2.0 * sin(0.5 * m_height * gammalib::deg2rad);</code>			

History

#1 - 12/06/2023 09:24 PM - Knödlseider Jürgen

- Status changed from New to Closed
- % Done changed from 0 to 100

Merged into devel.