

GammaLib - Bug #1050

GModelSpectralLogParabola: Curvature can't get fit

12/27/2013 06:42 PM - Mayer Michael

Status:	Closed	Start date:	12/27/2013
Priority:	Normal	Due date:	
Assigned To:	Mayer Michael	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	00-08-00		
<div>Description</div> <div>In GModelSpectralLogParabola a bug occurred in the function update_eval_cache(). In line 963 of GModelSpectralLogParabola.cpp m_last_power is calculated to</div> <div><pre>m_last_exponent = m_last_index + m_last_curvature * m_last_log_e_norm; m_last_power = std::pow(m_last_e_norm, m_last_index);</pre></div> <div>in the eval() and eval_gradient()-methods, the function value is then calculated by: double value = m_norm.value() * m_last_power; However, this only returns the power law value without any curvature. The correct line of code in line 963 should be:</div> <div><pre>m_last_power = std::pow(m_last_e_norm, m_last_exponent);</pre></div> <div>Is it worth to create a feature branch for changing one word? smile.png</div>			

History

#1 - 01/03/2014 09:31 AM - KnödlseDer Jürgen

- Status changed from New to Feedback
- Assigned To set to Mayer Michael
- Target version set to 00-08-00
- % Done changed from 0 to 100

Changed and merged into devel.

#2 - 01/03/2014 02:20 PM - Mayer Michael

looks good. Curvature can be fit again.

#3 - 01/03/2014 09:07 PM - KnödlseDer Jürgen

- Status changed from Feedback to Closed