

## GammaLib - Action #503

Feature # 490 (Closed): Avoid casts for derived classes

### Rework GModelSpectral interface

09/19/2012 10:04 PM - Knödseder Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	09/20/2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Knödseder Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	00-07-00		
<b>Description</b>			
Here a list of methods implemented in derived classes of GModelSpectral:			
GModelSpectralConst:			
<ul style="list-style-type: none"><li>• double norm(void) const;</li></ul>			
Note: this is just a luxury method as the same can be achieved by using the parameter access method.			
GModelSpectralExpPlaw:			
<ul style="list-style-type: none"><li>• void autoscale(void);</li><li>• double norm(void) const;</li><li>• double index(void) const;</li><li>• double ecut(void) const;</li><li>• double pivot(void) const;</li></ul>			
Note: the methods except of autoscale() are just a luxury as the same can be achieved by using the parameter access method. autoscale() is pretty low-level, and likely not a generic method.			
GModelSpectralFunc:			
<ul style="list-style-type: none"><li>• double norm(void) const;</li></ul>			
Note: this is just a luxury method as the same can be achieved by using the parameter access method.			
GModelSpectralNodes:			
None			
GModelSpectralPlaw:			
<ul style="list-style-type: none"><li>• void autoscale(void);</li><li>• double norm(void) const;</li><li>• double index(void) const;</li><li>• double pivot(void) const;</li></ul>			
Note: the methods except of autoscale() are just a luxury as the same can be achieved by using the parameter access method. autoscale() is pretty low-level, and likely not a generic method.			
GModelSpectralPlaw2:			
<ul style="list-style-type: none"><li>• double integral(void) const;</li><li>• double index(void) const;</li><li>• double emin(void) const;</li><li>• double emax(void) const;</li></ul>			
Note: these are just luxury methods as the same can be achieved by using the parameter access method.			

### History

#1 - 09/19/2012 10:11 PM - Knödseder Jürgen

- *Description updated*

**#2 - 09/20/2012 05:21 PM - Knödseder Jürgen**

- *Start date set to 09/20/2012*

due to changes in a related task

**#3 - 09/20/2012 05:52 PM - Knödseder Jürgen**

- *Status changed from New to Feedback*

- *Assigned To set to Knödseder Jürgen*

- *% Done changed from 0 to 100*

- *Remaining (hours) set to 0.0*

The interface has not been reworked. Instead, output typemaps have been implemented that perform typecasting at the access level.

**#4 - 12/04/2012 10:45 PM - Knödseder Jürgen**

- *Status changed from Feedback to Closed*

- *Estimated time set to 0.00*