

## GammaLib - Bug #1472

### Error during integration when using energy dispersion

06/06/2015 12:22 PM - Mayer Michael

<b>Status:</b>	Closed	<b>Start date:</b>	06/06/2015
<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>	1.0.0		
<b>Description</b>			
<p>Currently, when using the energy dispersion there seems to be a problem with the integration. I get the following error when running ctlike:</p>			
<pre>ctlike edisp=yes Event list, counts cube or observation definition file [sel_obs.xml] Source model [crab.xml] Source model output file [crab_results.xml] *** ERROR encountered in the execution of ctlike. Run aborted ... *** ERROR in GIntegral::romberg(double&amp;, double&amp;, int&amp;): Invalid argument. Requested integration order 5 is larger than the maximum number of iterations 4. Either reduced the integration order or increase the (maximum) number of iterations.</pre>			
<p>There must be some fixed value somewhere which conflicts with the default integration setup of GIntegral</p>			

### History

#### #1 - 06/06/2015 11:26 PM - Knödseder Jürgen

- Status changed from New to Closed
- Assigned To set to Knödseder Jürgen
- Target version set to 1.0.0
- % Done changed from 0 to 100

Sorry for that. I changed recently all integrations using a fixed number of iterations, and I set the energy dispersion integrations to a too small number of iterations, leading to the exception you observed.

I increase now the number of iterations, should be fixed in devel.

Note that there seem to be issues still with the RMF and 2D responses (see #1036). So please use energy dispersion with care.