GammaLib - Bug #1472

Error during integration when using energy dispersion

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

Status:	Closed		**Start date:**	06/06/2015
Priority:	Normal		**Due date:**	
Assigned To:	Knödlseder Jürgen		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	1.0.0			

Description

Currently, when using the energy dispersion there seems to be a problem with the integration.
I get the following error when running ctlike:

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 encounterted in the execution of ctlike. Run aborted ...
*** ERROR in GIntegral::romberg(double&, double&, int&): 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.

There must be some fixed value somewhere which conflicts with the default integration setup of GIntegral

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History

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

- Status changed from New to Closed

- Assigned To set to Knödlseder 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.