GammaLib - Feature #1861

Implement multiplicative spectral models

10/03/2016 09:56 PM - Knödlseder Jürgen

	Closed	Start date:	10/03/2016
Priority:	Normal	Due date:	
Assigned To:	Mayer Michael	% Done:	90%
Category:		Estimated time:	0.00 hour
Target version:	1.2.0		
Description		·	
sprint it appears bes		spectral model in analogy to the cor	mented. After discussion at today's coding nposite spectral models (see #1706). A
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History

#1 - 10/05/2016 05:25 PM - Mayer Michael

- Status changed from New to In Progress
- Assigned To set to Mayer Michael
- Target version set to 1.2.0
- % Done changed from 0 to 80

I have implemented the multiplicative model on branch *1861-multiplicative-spectral-model*. I am about to start the pull distributions.

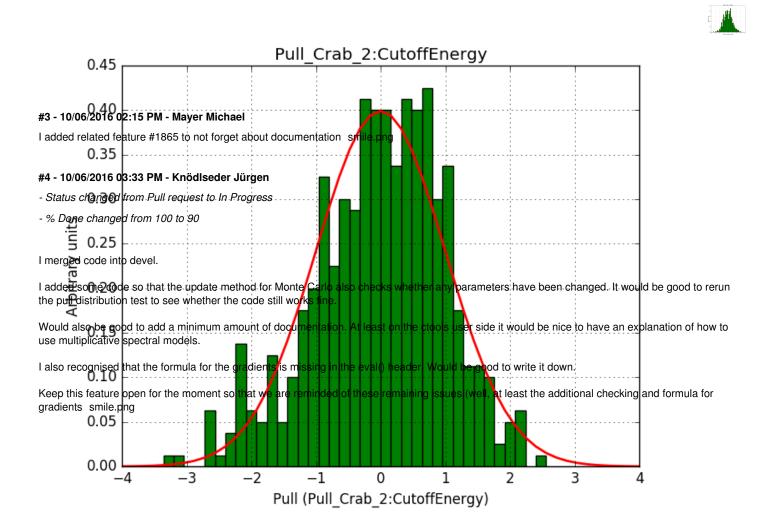
#2 - 10/06/2016 12:24 PM - Mayer Michael

- File 1_Index.png added
- File 1_Prefactor.png added
- File 2_CutoffEnergy.png added

- Status changed from In Progress to Pull request

- % Done changed from 80 to 100

Below are the pull distributions with 500 trials using the above model including a CTA background model. User documentation is still missing, but we could move this to a separate feature?.



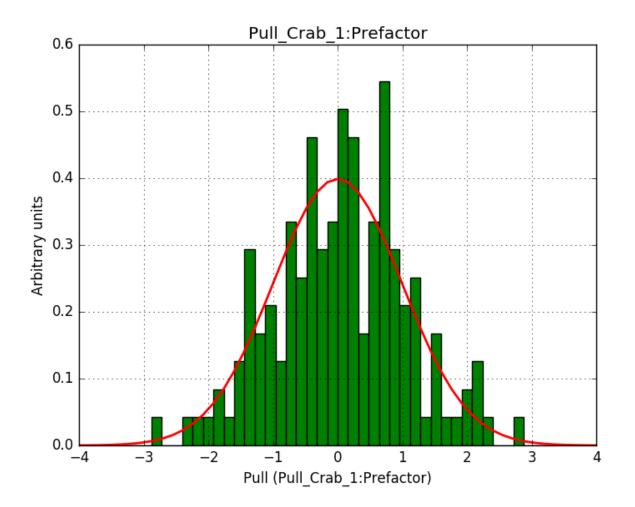
#5 - 10/06/2016 04:28 PM - Mayer Michael

- File 1_Index_2.png added
- File 1_Prefactor_2.png added
- File 2_CutoffEnergy_2.png added
- Status changed from In Progress to Pull request

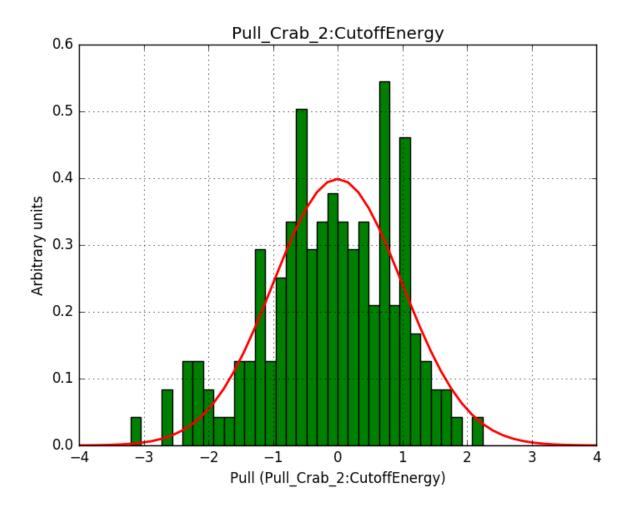
I have added the LaTeX formula of the gradients to the doxygen documentation. Furthermore I removed the add_component() method since it was not needed and could be merged in the read method. A check for unique component names has also been implemented and a corresponding function was added to GTools. For the documentation, I added #1865.

I forgot to work on my old branch. For simplicity I now created a new branch where I made the changes: 1861-multiplicative-spectral-model-continued

Pull distributions have started and look good. Here is a snapshot of the distributions of the first 150 trials.







#6 - 10/06/2016 11:18 PM - Knödlseder Jürgen

- Status changed from Pull request to Closed

Merged into devel.

Files

1_Index.png	40.2 KB	10/06/2016	Mayer Michael
1_Prefactor.png	41.4 KB	10/06/2016	Mayer Michael
2_CutoffEnergy.png	50 KB	10/06/2016	Mayer Michael
1_Index_2.png	39.6 KB	10/06/2016	Mayer Michael
1_Prefactor_2.png	40.6 KB	10/06/2016	Mayer Michael
2_CutoffEnergy_2.png	42.6 KB	10/06/2016	Mayer Michael