GammaLib - Support #2761

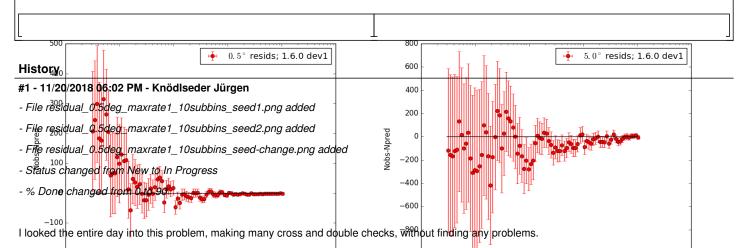
Significant residuals in background simulations for limited radius at low energies

11/20/2018 04:43 PM - Knödlseder Jürgen

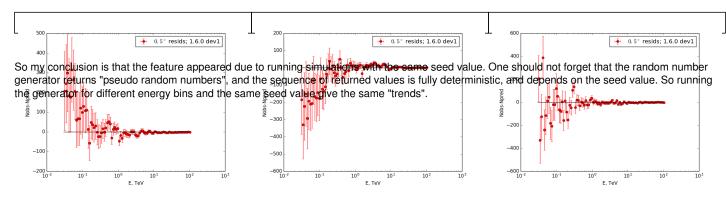
Status:	Closed	Start date:	11/20/2018
Priority:	Normal	Due date:	
Assigned To:	Knödlseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.6.0		

Description

Anastasia Sokolenko reported some strange features when simulating background events for the 1DC South 50h IRF for a simulation radius of 0.5 deg. There seem to be energy dependent excess events at low energies compared to the predicted number of background events. Increasing the simulation radius, the effects are not significant anymore (see below).



I noticed the seed value for the seed value for the seed value after the computation for an erefy below shows the result in the right panel, which no longer shows correlations with energy.



#2 - 11/22/2018 04:18 PM - Knödlseder Jürgen

- Tracker changed from Bug to Support
- Status changed from In Progress to Closed
- % Done changed from 90 to 100

Files

residual_5.0deg_maxrate1_10subbins.png	33.9 KB	11/20/2018	Knödlseder Jürgen
residual_0.5deg_maxrate1_10subbins.png	31.8 KB	11/20/2018	Knödlseder Jürgen

residual_0.5deg_maxrate1_10subbins_seed1.png	31.8 KB	11/20/2018	Knödlseder Jürgen
residual_0.5deg_maxrate1_10subbins_seed2.png	32.7 KB	11/20/2018	Knödlseder Jürgen
residual_0.5deg_maxrate1_10subbins_seed-change.png	30.9 KB	11/20/2018	Knödlseder Jürgen