

GammaLib - Bug #2696

stacked on/off analysis

10/08/2018 04:39 PM - Specovius Andreas

Status:	Closed	Start date:	10/08/2018
Priority:	High	Due date:	
Assigned To:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.6.0		
Description It seems like the latest adaptations made for the on/off analysis, namely the possibility to do a reflected regions analysis without providing a background template ([[redmine #2659]]), were implemented for the joint analysis only. When trying to run ctlike on a stacked observation that has been generated with the option use_irf_bkg=no the (wstat) likelihood evaluation results in nan values. I traced the error and ended up with this explanation: The resulting nans are because during stacking the alpha value (BACKSCAL) is computed to be zero. The reason for that is that the computation takes the background rate (BACKRESP) into account which is given by the background template - and hence zero for this scenario. I guess the implementation of the stacking constructor still has to be adapted for the case with use_irf_bkg=no?			
Related issues: Duplicates ctools - Bug # 2683: Errors with On/Off analysis of HESS data in s... <div>Closed09/20/2018</div>			

History

#1 - 10/08/2018 04:44 PM - Knödlseeder Jürgen

- Duplicates Bug #2683: Errors with On/Off analysis of HESS data in stacked mode added

#2 - 10/08/2018 04:45 PM - Knödlseeder Jürgen

Is in fact already solved in the devel branch, I'm about to merge in some additional code, everything should work in a few minutes, see #2683.

#3 - 12/12/2018 02:27 PM - Knödlseeder Jürgen

- Status changed from New to Closed
- Target version set to 1.6.0
- % Done changed from 0 to 100