

ctools - Action #3059

cssens sensitivity calculation for a source with file function spectrum

10/29/2019 07:28 PM - Kherlakian M.

Status:	Rejected	Start date:	10/29/2019
Priority:	High	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	1.7.0		
Description			
<p>Hello! I get the error below when I try to calculate CTA sensitivity to DM structures via cssens. The spectrum of the source is defined by a file function (energy_flux.txt).</p> <p>Is there another tool that does this type of calculation? Or I am doing something wrong?</p> <p>Best.</p> <p>variable definition: -----</p> <p>Lower energy limit (TeV) [0.03163] Upper energy limit (TeV) [125.8925] Calibration database [prod2] Instrument response function [data/cta/prod2/bcf/North_5h/irf_file.fits.gz] Effective exposure time (s) [180000.0] Radius of ROI (deg) [5.0] Input model definition XML file [subh2.xml] teste.xml Source name [subh] subh</p> <p>error: -----</p> <p>File "/usr/local/gamma/bin/cssens", line 735, in <module> app.execute() File "/usr/local/gamma/lib/python3.6/site-packages/ctools/tools.py", line 1542, in _execute self.run() File "/usr/local/gamma/bin/cssens", line 682, in run ra=self._ra, dec=self._dec) File "/usr/local/gamma/lib/python3.6/site-packages/cscripts/modutils.py", line 69, in test_source raise RuntimeError(msg) RuntimeError: Model "subh" has no parameter "Prefactor". Only spectral models with a "Prefactor" parameter are supported.</p>			
Related issues:			
Related to ctools - Feature # 1889: cssens sensitivity calculation for model ...			Closed

History

#1 - 10/30/2019 01:38 PM - Knödseder Jürgen

- Related to Feature #1889: cssens sensitivity calculation for model with spectrum from file (GModelSpectralFunc) added

#2 - 10/30/2019 01:40 PM - Knödseder Jürgen

- Status changed from New to Rejected

For the moment the cssens script only works for spectral models that have a Prefactor parameter, see #1889. The code needs to be modified if it should also work for other spectral forms. I will reject this issue since it doubles #1889. I will look as soon as possible in an implementation of this functionality.

Files

teste.xml	900 Bytes	10/29/2019	Kherlakian M.
energy_flux.txt	3.88 KB	10/29/2019	Kherlakian M.