

[Plot spectrum for different version of CTools]

12/04/2020 11:47 AM - Diaz-Bahamondes Christian

Status:	Closed	Start date:	12/04/2020
Priority:	Normal	Due date:	
Assigned To:	Tibaldo Luigi	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			

Description

Hi, I am Christian Diaz and I have a problem with the last update of CTools, this is: when I use the console to plot the spectrums by different simulations (with a different version of ctools), doesn't work and show me this bug:

```
"(chirri) Christians-MacBook-Pro:Graphs chirri$ python show_spectrum.py SpecedisWoALPs1.fits
```

Traceback (most recent call last):

File "show_spectrum.py", line 296, in <module>


```
show_spectrum()
```


File "show_spectrum.py", line 284, in show_spectrum


```
plot_spectrum(args[0], plotfile)
```


File "show_spectrum.py", line 230, in plot_spectrum


```
spec = get_spectrum_file(filename)
```


File "show_spectrum.py", line 59, in get_spectrum_file


```
return get_spectrum_fits(fits)
```


File "show_spectrum.py", line 81, in get_spectrum_fits


```
c_energy = table['e_ref']
```


File "/Users/chirri/opt/anaconda3/envs/chirri/lib/python3.5/site-packages/gammlib/fits.py", line 2279, in *getitem*


```
return fits.GFitsTable__getitem__(self, *args)
```

RuntimeError: *** ERROR in GFitsTable::operator[](std::string&): Column "e_ref" not found in table"

I saw the file show_spectrum.py and I realized that is very different than the old version of the file show_spectrum.py, so you have some advice for that or some solution?

Best regards.

History

#1 - 12/04/2020 11:56 AM - Tibaldo Luigi

Hi Christian,

could you please specify which are the two versions of ctools used to generate the spectral files and to plot?

#2 - 12/04/2020 12:07 PM - Diaz-Bahamondes Christian

- File show_spectrum_old.py added

- File show_spectrum_last.py added

user#266 wrote:

Hi Christian,

could you please specify which are the two versions of ctools used to generate the spectral files and to plot?

Yes, when I used the old version of 'show_spectrum.py' (v. 2015-2019) and I tried to make a graph with a new file for 'spectrum.fits' (last update of ctools) doesn't work and this is the bug I show you. Viceversa is the same, I mean when I used the new version of 'show_spectrum.py' with last version of 'spectrum.fits' doesn't work too. I attached the last version and new version of show_spectrum.py

Best regards

#3 - 12/04/2020 01:02 PM - Tibaldo Luigi

- Tracker changed from Bug to Support

- Status changed from New to Resolved

- % Done changed from 0 to 100

Hi Christian,

this is not a bug. In version 1.7 the format of the spectrum files was changed to support the storage of likelihood profiles, aka Castro plots, see #2938, and also to make it more compliant with the community-defined format for interoperability reasons (https://gamma-astro-data-formats.readthedocs.io/en/latest/spectra/flux_points/index.html#flux-points).

Unfortunately this means that spectrum files produced with ctools < 1.7.0 will not be readable with the example scripts shipped with ctools > 1.7.0. If you need to read/plot old files please use the old version of the example plotting script.

#4 - 02/05/2021 07:57 AM - Knödseder Jürgen

- Status changed from Resolved to Closed
- Assigned To set to Tibaldo Luigi

Files

show_spectrum_old.py	3.99 KB	12/04/2020	Diaz-Bahamondes Christian
show_spectrum_last.py	8.26 KB	12/04/2020	Diaz-Bahamondes Christian