GammaLib - Change request #2670

Support ENERG colname for energy dispersion fits file

09/04/2018 03:32 PM - Specovius Andreas

Status:	Closed	**Start date:**	09/04/2018
Priority:	Normal	**Due date:**	
Assigned To:	Knödlseder Jürgen	**% Done:**	100%
Category:		**Estimated time:**	0.00 hour
Target version:	1.6.0		

Description

Right now, GCTAEdisp2D initializes its energy axis with the hardcoded name "ETRUE":
m_inx_etrue = m_edisp.axis("ETRUE")

However, specifications for gamma-ray data formats suggest “ENERG”:
https://gamma-astro-data-formats.readthedocs.io/en/latest/irfs/full_enclosure/edisp/index.html#edisp-2d

Maybe this class should be changed to support multiple column names.

History

#1 - 09/07/2018 04:49 PM - Knödlseder Jürgen

- Status changed from New to Pull request

- Assigned To set to Knödlseder Jürgen

- Target version set to 1.6.0

- % Done changed from 0 to 100

I recall that we had at some point a discussion about names of energy columns and wanted to have a distinction between true and reconstructed energies in the column names, but I could not find any trace of that discussion.

Anyway, I changed the code so that both ETRUE and ENERG column names are supported. Code is merged into devel (you may check if everything is okay since I have not made an explicit code check).

#2 - 09/08/2018 10:05 AM - Knödlseder Jürgen

- Status changed from Pull request to Closed

I also changed the column name in csroot2caldb so that newly generated IRFs now have ENERG as column name.

Code is merged into devel.

#3 - 09/09/2018 11:45 AM - Specovius Andreas

user#3 wrote:

> I recall that we had at some point a discussion about names of energy columns and wanted to have a distinction between true and reconstructed energies in the column names, but I could not find any trace of that discussion.

I see your point and aggree with you. I don't know, maybe the suggested data format specs are deprecated?

#4 - 09/09/2018 12:41 PM - Specovius Andreas

user#3 wrote:

> Anyway, I changed the code so that both ETRUE and ENERG column names are supported. Code is merged into devel (you may check if everything is okay since I have not made an explicit code check).

Unfortunately in the code you search for the table ENERG which is an axis. An exception is raised. Line
1339> if (m_edisp.has_table("ENERG")) {

should be replaced with
1339> if (m_edisp.has_axis("ENERG")) {

#5 - 09/10/2018 09:29 AM - Knödlseder Jürgen

- Status changed from Closed to Feedback

Sorry for that, is corrected now. Can you check again?

#6 - 09/10/2018 10:04 AM - Specovius Andreas

user#3 wrote:

> Sorry for that, is corrected now. Can you check again?

The updated implementation works correctly :-)

#7 - 09/10/2018 10:32 AM - Knödlseder Jürgen

- Status changed from Feedback to Closed

Great, thanks.