

GammaLib - Action #931

Feature # 46 (Closed): Add XPSEC support module

Implement GPha class

06/26/2013 10:31 AM - Knödseder Jürgen

Status:	Closed	Start date:	06/23/2013
Priority:	Normal	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	HESS sprint #1		
Description			
<p>This class stores a counts spectrum. Reading from a PHA file and writing into a PHA file should be supported. A spectrum can be filled using the fill() method. The spectrum also tracks underflows and overflows.</p>			
<pre>class GPha : public GBase { public: // Constructors and destructors GPha(void); explicit GPha(const GEbounds& ebds); GPha(const GPha& spec); virtual ~GPha(void); // Operators GPha& operator=(const GPha& spec); double& operator[](const int& index); const double& operator[](const int& index) const; // Implemented pure virtual methods void clear(void); GPha* clone(void) const; int size(void) const; void fill(const GEnergy& energy, const double& value = 1.0); void load(const std::string& filename); void save(const std::string& filename) const; std::string print(const GChatter& chatter = NORMAL) const; protected: // Protected methods void init_members(void); void copy_members(const GPha& spec); void free_members(void); // Protected members GEbounds m_ebounds; //!< Energy boundaries std::vector<double> m_counts; //!< Counts data double m_underflow; //!< Number of underflowing events double m_overflow; //!< Number of overflowing events };</pre>			

History

#1 - 06/26/2013 10:31 AM - Knödseder Jürgen

- Description updated

#2 - 06/26/2013 10:46 AM - Knödseder Jürgen

- Assigned To set to Knödseder Jürgen

#3 - 06/26/2013 12:12 PM - Knödseder Jürgen

- Status changed from New to In Progress

#4 - 06/26/2013 04:27 PM - Knödseder Jürgen

- % Done changed from 0 to 30

Implement an initial version of the GPha class.

#5 - 06/26/2013 11:11 PM - Knödseder Jürgen

- % Done changed from 30 to 80

#6 - 06/27/2013 04:14 PM - Knödseder Jürgen

- Status changed from In Progress to Feedback

- % Done changed from 80 to 100

- Remaining (hours) set to 0.0

The Python interface and a Python unit test has been implemented.

#7 - 11/03/2013 02:07 AM - Knödseder Jürgen

- *Status changed from Feedback to Closed*
- *Estimated time set to 0.00*