GammaLib - Feature #692

Perform an extensive interface review of all classes

01/12/2013 05:15 PM - Knödlseder Jürgen

Status:	Closed	**Start date:**	01/12/2013
Priority:	Urgent	**Due date:**	
Assigned To:	Knödlseder Jürgen	**% Done:**	100%
Category:		**Estimated time:**	204.00 hours
Target version:	00-08-00		

Description

We should review the interfaces of all classes to make sure that all interfaces are homogeneous and also complete. This is an important step towards the first stable release which will enter under interface control.

Here a couple of principles that should be respected during interface review:

- Each class should have a constructor that allows one-line construction of a meaningful objects.
  This makes programming much easier, and prevents the need for a two step process for object creation (allocation and setting). The object constructor should take the most relevant parameters as arguments. Specific attributes can always be set using additional methods.

- If a class has an assignment method that assigns n elements of a given type (such as the std::vector.assign() method), the first argument is the number of elements n, followed by the element.

Subtasks:

Action # 771: Review app module classes	**Closed**
Action # 770: Review obs module classes	**Closed**
Action # 772: Review fits module classes	**Closed**
Action # 774: Review sky module classes	**Closed**
Action # 777: Review test module classes	**Closed**
Action # 778: Review numerics module classes	**Closed**
Action # 779: Review support module classes	**Closed**
Action # 775: Review linalg module classes	**Closed**
Action # 773: Review model module classes	**Closed**
Action # 693: Review interface for GModelSpectral classes	**Closed**
Action # 776: Review opt module classes	**Closed**
Action # 808: Support also non-factorized sky models.	**Closed**
Action # 769: Review xml module classes	**Closed**
Action # 818: Add chatter level to print() methods	**Closed**
Action # 1035: Review COM interface	**Closed**
Action # 1034: Review MWL interface	**Closed**
Action # 1033: Review CTA interface	**Closed**
Action # 1032: Review LAT interface	**Closed**

Related issues:

Related to GammaLib - Change request # 689: GXmlNode append method should clo...	**Closed**	01/11/2013
Related to GammaLib - Action # 768: Add GContainer interface class	**Closed**	12/15/2012

History

#1 - 01/12/2013 05:16 PM - Knödlseder Jürgen

- Target version set to 00-08-00

#2 - 02/19/2013 03:34 PM - Knödlseder Jürgen

- Status changed from New to In Progress

#3 - 02/19/2013 03:34 PM - Knödlseder Jürgen

- Assigned To set to Knödlseder Jürgen

#4 - 02/19/2013 03:51 PM - Knödlseder Jürgen

- Description updated

#5 - 12/11/2013 08:28 PM - Knödlseder Jürgen

- Status changed from In Progress to Closed