ctools - Feature #1483

flag to distinguished background events from sources events

06/26/2015 09:00 AM - Rodriguez Fernandez Gonzalo

Status:	Closed		**Start date:**	06/26/2015
Priority:	Normal		**Due date:**	
Assigned To:	Knödlseder Jürgen		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	1.3.0			

Description

Hello,

I am using a python script to simulate a set of events using ctools.ctobssim (simulate_events.py).
After the simulation I can access to the events.
events = sim.obs()[0].events().copy()

where I have the energy and direction, ecc.

It would be very useful to know if the event was generated from background or from the source.
I would suggest to add a flag to distinguished events from background and sources.

Gonzalo.

History

#1 - 06/21/2016 09:52 PM - Knödlseder Jürgen

- Target version set to 1.2.0

#2 - 03/03/2017 10:33 AM - Knödlseder Jürgen

- Target version changed from 1.2.0 to 1.3.0

#3 - 04/14/2017 03:12 PM - Knödlseder Jürgen

- Status changed from New to In Progress

- Assigned To set to Knödlseder Jürgen

- % Done changed from 0 to 90

The following methods have been added to GammaLib to trace Monte Carlo information in an CTA event list:

- GCTAEventList::has_mc_id(bool&): Signal availability of Monte Carlo information in an event list
- GCTAEventList::has_mc_id(): Returns true if Monte Carlo information in an event list is available
- GCTAEventList::set_mc_id_names(std::vector<int>&, std::vector<std::string>&): Set correspondance between Monte Carlo identifiers and model names
- GCTAEventAtom::mc_id(int&): Set Monte Carlo identifier for an event
- GCTAEventAtom::mc_id(): Returns Monte Carlo identifier for an event

The ctobssim tool now sets the Monte Carlo identifiers for every event

#4 - 04/14/2017 11:21 PM - Knödlseder Jürgen

- Status changed from In Progress to Closed

- % Done changed from 90 to 100

Code is merged into devel