

GammaLib - Action #1310

add GCTAMeanPsf::ctr(double percent)

08/04/2014 10:51 AM - Lu Chia-Chun

Status:	Closed	Start date:	08/04/2014
Priority:	Normal	Due date:	
Assigned To:	Lu Chia-Chun	% Done:	100%
Category:		Estimated time:	1.00 hour
Target version:			
Description the functionality of calculating containment radius is very frequently used and helpful for diagnostics. I suggest adding this functionality. The question is then where this method should be. Currently I add it in GCTAMeanPsf, but we should consider moving it to a more generic class.			
Related issues: Duplicated by GammaLib - Feature # 1459: function for calculating the contain... Closed 05/13/2015			

History

#1 - 08/04/2014 11:54 AM - Knödseder Jürgen

- Description updated

I just propose to use a more explicit name, such as containment or containment_radius. We should probably have this method also in the GCTAPsf base class. I guess you need more arguments than percent as the containment will also depend on the position in the FoV and the energy. I thus would suggest a method

```
double GCTAMeanPsf::containment(const GSkyDir& dir, const GEnergy& energy, const double& fraction = 0.6827)
```

using a fraction (0-1) as argument, which could be by default the 1 sigma fraction.

#2 - 06/21/2016 10:10 PM - Knödseder Jürgen

- Status changed from New to Closed

- % Done changed from 0 to 100

The GCTAPsf::containment_radius() method has been added to the CTA PSF interface.