Subject: Re: How to create synthetic images of stars with gaussian psf in IDL. Posted by Sonu Tabitha on Tue, 05 Apr 2016 04:15:18 GMT

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On Monday, April 4, 2016 at 11:13:35 PM UTC+5:30, Michael Galloy wrote:

- > On 4/4/16 9:01 AM, Sonu Tabitha wrote:
- >> On Monday, April 4, 2016 at 1:13:27 PM UTC+5:30, Sonu Tabitha wrote:
- >>> I want to create a synthetic image to resemble a stellar field
- >>> (say covering an area of 255 by 255 pixels, with a total of about 4
- >>> stars having Gaussian PSF). The rest of the image has to be filled
- >>> with constant background and noise, as present in the entire image,
- >>> but devoid of stars. I want to create this to test a source
- >>> extraction algorithm that I have developed. I am a beginner in IDL.
- >>> Can you please help me out in coding?

>>

>> Is there any way to do it with FLTARR?

>

- > FLTARR just makes an array of floats (by default 0.0's) of a given size.
- > You might use it, but that will the least of your worries.

>

- > Mike
- > Michael Galloy
- > www.michaelgalloy.com
- > Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)

I used PSF_gaussian to generate a star with gaussian profile. But while plotting what I am obtaining is a graph. Doesn't look like a star. Infact i need to create a closed object (circular or elliptical) to represent stars. Can you please tell em how to do it?