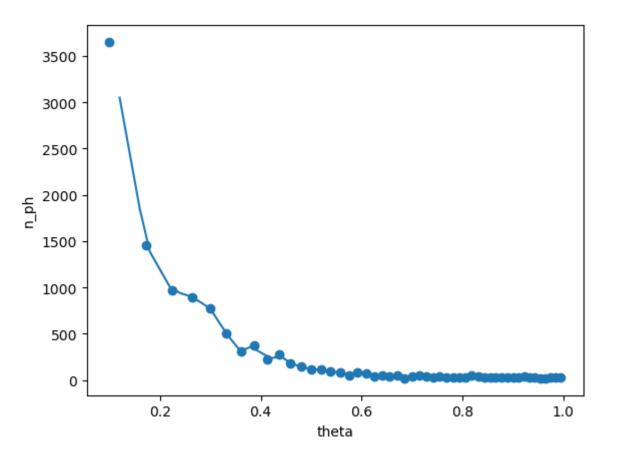
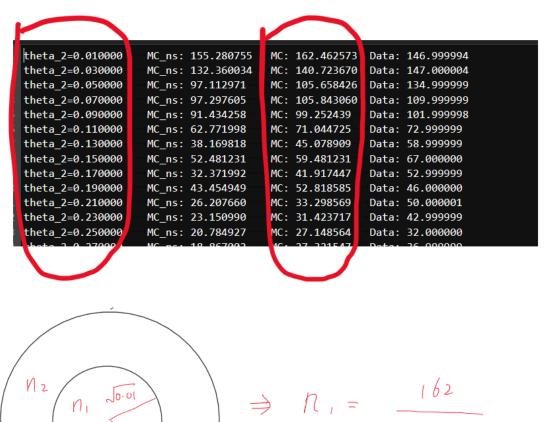
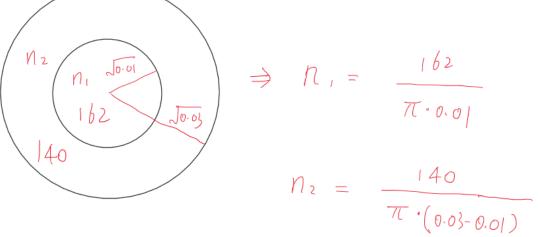
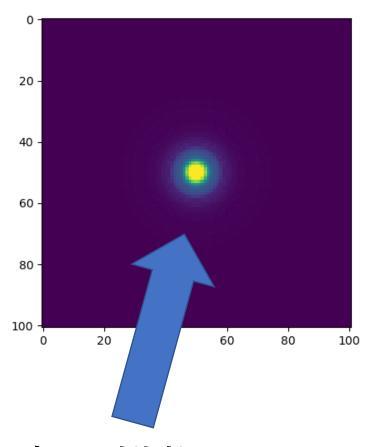
PSF强度-角度分布

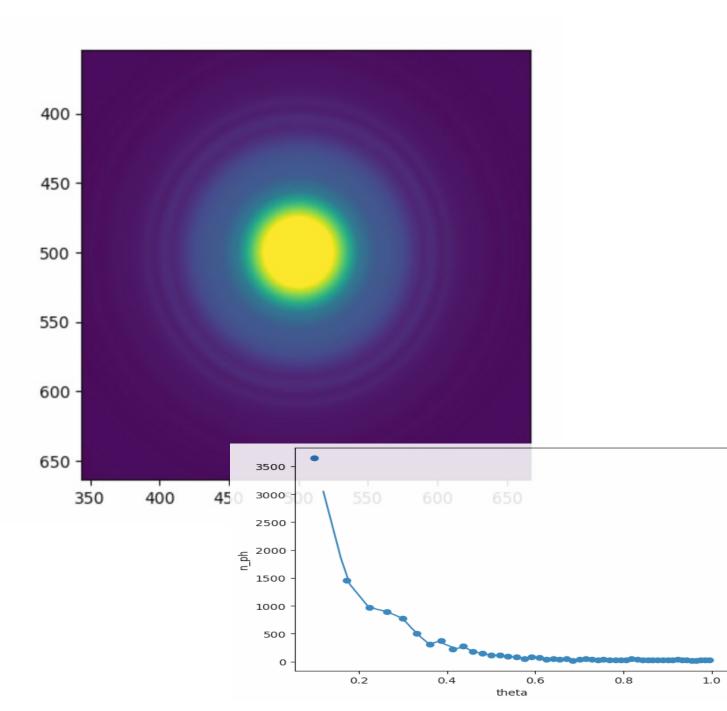








点源模糊后 X/Y:-2~2 deg



如何使用

1. 定义坐标轴: ra = dec = np.linspace(-10,10,201)

2. 用meshgrid生成格点 xx,yy = np.meshgrid(ra,dec)

3. 使用PSF.py中的interp函数插值,生成一个PSF卷积函数: PSFConv = PSF.interp(idx),这里idx对应不同能量的点扩散函数,见注释

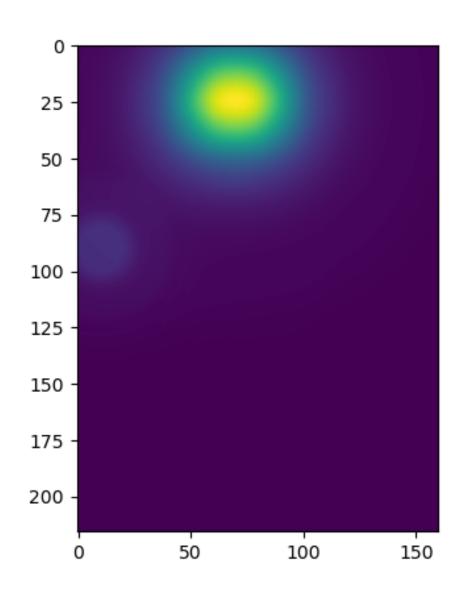
如何使用

4. 随便定义一个天区
sky = np.zeros_like(xx); sky[a,b] += 1
PSFConv(sky)
返回值为卷积后的天区。

得到卷积后总信号等于卷积前总信号

```
print('total signal before conv: %.2f'%z.sum())
print('total signal after conv: %.2f'%blurz.sum())

total signal before conv: 1.00
total signal after conv: 1.00
```



total signal before conv: 130000.000000000 total signal after conv: 109325.03358931

由于边界效应,PSF造成的信号可能弥散到图外导致总信号减少。 总信号减少。 实际操作可取大些的天区 卷积,然后截取中间部分 训练