Subject: Re: scatter light correction
Posted by on Thu, 09 Jan 2014 15:28:55 GMT
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Den torsdagen den 9:e januari 2014 kl. 06:46:55 UTC+1 skrev sid:
> On Wednesday, January 8, 2014 6:09:41 PM UTC+5:30, David Fanning wrote:
>> sid writes:
>
>>> In my spectral data, there is some problem due to scatter light, the problem is even after flat correction, there is still some scatter light and this scatter light changes my result drastically. This is very urgent so please help me out to get rid of this scatter light from my spectral data. Please give me some ideas or some routines that performs this correction.
>
>> Median filter.
>
> In my data there is a change in intensity along the wavelength axis. And I have to correct for this change in intensity.

Scattered light (or stray light - the terms are sometimes used interchangeably and sometimes mean slightly different things) can in general not be removed unless you know something about its characteristics. Is it just an added constant level? Or is it a purely additive but wavelength dependent component? Or, even worse, does the stray light depend on the object? In astronomical imaging, one useful model is that the observed image consist of two components: the "real" image and a blurred version of the real image. The problem then boils down to estimating the blurring kernel. You mention "wavelength axis" so I assume you also have one (or two?) spatial dimension(s).

Anyway, do you have any calibration data that might provide such information?