Subject: Re: flux-conserving image resampling?
Posted by edward.s.meinel@aero. on Fri, 24 Feb 2006 16:04:14 GMT
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If you are interested in the flux difference of two images of the same star, can't you just calculate the total flux of each star and then subtract the results? I assume you aren't looking at the sun, so the star would be unresolved...

Ed

Marshall Perrin wrote:
> Bringfried Stecklum <stecklum@tls-tautenburg.de> wrote:
>> I did not check how well it preserves the flux. In any case, you can
>> force the total flux of the output image to be the same as that of the
>> input image.
>
> As Henry points out, this isn't really sufficient to ensure that the
> original flux stays in the right parts of the final image. That's important
> for my particular application, which is a dual-beam differential polarimeter.
> I'm trying to take a very precise difference between two images of
> the same star taken simultaneously on different parts of the detector,
> and thus merely enforcing total flux conservation lets light slop between
> the two stellar images (and the background too). Yes, it's a small effect,
> but I'm trying to -measure- a fairly small difference in the first place and
> thus care about this.
>
> - Marshall