
Subject: Re: flux-conserving image resampling?

Posted by [Marshall Perrin](#) on Thu, 23 Feb 2006 17:39:19 GMT

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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
