Subject: Is there an automated way to estimated FWHM on 2-D image
Posted by jdshaw on Sun, 20 Sep 2009 01:02:37 GMT
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Hi,

Longtime reader, first time question:

I was wondering if anyone had a routine for estimating the full-width-at-half-maximum (FWHM) of possible point sources in a 2-D array. Most of the routines I have found and examined request the FWHM for a guassian to be convolved to find the sources.

What I'd like to do, is provide the source positions and get back the FWHM.

I.e., I have many images and need to determine the s/n (signal-to-noise) and FWHM without interactively working out the values for each image (or point source). I can easily determine the background value and the flux values for each point, if I provide the FWHM initially, but since the FWHM can change significantly from image to image, this is a problem.

My overall goal is to get accurate positions of the point sources with accuracy estimates (i.e. (s/n) / (FWHM) ). My sticking point seems to be the FWHM.

Any help would be appreciated.

Thanks - John