## Subject: Re: mpfit2dpeak and fitting an ellipse Posted by Vince Hradil on Sat, 31 May 2008 16:29:17 GMT

View Forum Message <> Reply to Message

On May 30, 2:09 pm, Kevin.Pall...@gmail.com wrote:

- > Hello,
- >
- > I have a quick question regarding fitting routines. I will describe
- > the problem first.
- > I have an image with X,Y coordinates and I try to find an overdensity
- > of points
- > by smoothing out the image. I used mpfit2dpeak to fit the N number of
- > points
- > and I was able to find the center xcen and ycen that way. But the
- > mpfit2dpeak
- > assumes either a Gaussian, Lorentzian or Moffat function. The shape
- > that I am
- > looking for in the image is an ellipse so I was looking if there is an
- > available
- > program that fits a 2 dimensional ellipse but I could not find one.
- > Does anyone have any suggestions on how to handle this?
- > Thank you,
- > Kevin Pallati

mpfit2dpeak will fit a gaussian (or the other functions) in 2d with separate widths and a tilt - so it is an ellipsoid. Are the intensities gaussian (or the other functions)? I'm guessing, "probably". So don't the other parameters get what you want?