Subject: to convert pixel numbers into wavelength
Posted by sid on Mon, 22 Mar 2010 13:57:05 GMT
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Hi,
My data is in fits format which is taken using 1k by 1k ccd. So the data has 1024 rows and 1024 columns each having different count values. I need to convert this pixel number by wavelength, to do that, im having a relation like,
lamda(n)=lamda(0)+n(dispersion)
where,
dispersion=dispersion along x axis in units of wavelength per pixel(known value)
n=pixel number(known value)
lamda(0)=wavelength at zeroth pixel(known value)
lamda(n)=wavelength at nth pixel(unknown value)
Now please give me some suggesions to get the lamda(n) for each n value and finally to get the pixel values converted to wavelength with the help of this above relation.
Note: rightnow i have averaged the counts along 1024 rows, so I have 1 row and 1024 columns, if i plot the data, my xaxis will be pixel numbers and y axis will be counts per pixel.
regards
sid