Subject: Re: Help!!!!
Posted by rryan%stsci.edu on Sat, 18 Apr 2015 19:26:16 GMT
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On Saturday, April 18, 2015 at 1:25:30 PM UTC-4, alep...@gmail.com wrote:
> How to linear and robust adjustment ?
> LINFIT : y = A + Bx
> LINFIT result = (X, Y = MEASURE_ERRORS measure_errors )
> PRINT , result
>
> What data put in X , Y ?

It sounds like your professor is trying to get you to infer the Hubble constant from a bunch of data. He or she must have given you some data. Those data are x and y. At a fundamental level, it matters which is which, and you should try to understand that. Typically you have a "dependent" and "independent" variable. You need to realize which is which, of course I know, but I can't just tell you. Start by thinking what physically does Hubble constant represent? What are its units? km/s per Mpc. Now, what are the units of a slope of a line? Which variable should be x and should be y, now?

Once you get that sorted out, the IDL code is simple...

http://www.exelisvis.com/docs/LINFIT.html

result = linfit (x, y, measure_errors=dy)

where dy are the errors on y.