Subject: Plot in wavelength and energy axes Posted by burkina on Thu, 09 Jun 2005 14:28:45 GMT View Forum Message <> Reply to Message

I'd like to plot a spectrum with two different x axes, one in wavelenght, the other in energy. The two quantities are clearly not linear one to the other, so that I guess there's no other way than writing my own tickmarks.

The best solution I've found is:

plot, lambda, smoothed\_flux, charsize=1, xtitle=xlabel, ytitle=ylabel, xrange=[lambda\_min,lambda\_max], yrange=[miny\*0.9,maxy\*1.25], xstyle=1+8, ystyle=1 axis, xaxis=1, xtickv=[wave2kev, wave2kev/0.9, wave2kev/0.8, wave2kev/0.7, wave2kev/0.6, wave2kev/0.5], xticks=8, xstyle=1, xtickname=[0.8, 0.9, 0.8, 0.7, 0.6, 0.5], xtitle="Energy (keV)"

It works, but:

- 1. I also would like to put ten minor tickmarks for each interval (at positions, say, wave2kev/0.81, wave2kev/0.82, .....), but without the labels. How can I do that? Clearly, they are also not linear, so I cannot simply let IDL draw them for me with the xminor key.
- 2. Why IDL keeps on writing 1.00000 instead of 1.0 in my new axis!?! What should I do? I tried with xtickunits, but then it puts back the labels in wavelenght!!!

Thanks,

Stefano