Subject: Re: re-binning with linear interpolation
Posted by Wout De Nolf on Wed, 01 Jun 2011 09:55:16 GMT
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On Wed, 1 Jun 2011 01:17:10 -0700 (PDT), abc <deearvind12@gmail.com>
wrote:

> I want to re-bin the wavelength at a step of 1 A and also the flux at
> the same step but with linear interpolation.

```
a=[[5201.720215,0.0097],$
   [5205.345215,0.0088],$
   [5208.970703,0.0080],$
   [5212.596191,0.0094],$
   [5216.221680,0.0133],$
   [5219.846680,0.0167],$
   [5223.472168,0.0169],$
   [5227.097656,0.0156],$
   [5230.722656,0.0145],$
   [5234.348145,0.0138],$
   [5237.973633,0.0130],$
   [5241.599121,0.0118],$
   [5245.224121,0.0110],$
   [5248.849609,0.0116],$
   [5252.475098,0.0134],$
   [5256.100586,0.0147],$
   [5259.725586,0.0139],$
   [5263.351074,0.0126]]

; New wavelengths
b=floor(a[0,0])
e=ceil(a[0,-1])
inc=1.
x=b+inc*lindgen(1,(e-b)/inc+1)

; Linear interpolate flux
y=interpol(a[1,*],a[0,*],x)

; Plot
pa=plot(a,'+r-')
pb=plot(x,y,'+-',/overplot)
```