
Subject: Re: how to align the position of the absorption line for different files at one single postion

Posted by [bstecklu](#) on Tue, 12 Jun 2012 06:45:51 GMT

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You might consider two methods for the alignment, cross-correlation and line-profile fitting. If you rely just on one line, profile fitting will do (cross-correlation is advantageous in case of many lines). However, using one line might be dangerous if the spectral bandwidth is not much smaller than the wavelength, otherwise the wavelength dependence of the dispersion might cause trouble (if the spectrograph is not extremely stable).

Bringfried

sid wrote:

> Hi all,
> I have a problem, I have an absorption line which occurs at
> different positions for different files. I have to align those centre
> of the absorption line at a particular position in order to do
> wavelength calibration for all files. I have to do this in a loop.
> Please let me know if you have some suggestions or any idl routines
> for this purpose.
> thanking you in advance.
> sid
