View Forum Message <> Reply to Message On Wednesday, January 23, 2013 5:49:33 PM UTC+1, wlandsman wrote: > The IDL astronomy library has the function LSF\_ROTATE > > http://idlastro.gsfc.nasa.gov/ftp/pro/astro/lsf rotate.pro > > > > to return a convolution kernel for rotating a stellar spectrum under typical assumptions (e.g. You can use one of the many interpolation routines (e.g. interpol()) to constant limb darkening). do the interpolation. > > > On Wednesday, January 23, 2013 7:10:12 AM UTC-5, idlhelp wrote: > >> Does anyone know the IDL routine with the help of which I can first do the interpolation onto a wavelength grid and then get the kernel for vsini and then finally interpolate back onto my original wavelength grid. >> > >> > >> >> thanks thanks. I am using that library. I have checked the program with different vsini values. The only things which I didn't understand is the there is a huge offset in the flux at vsini=0.0 and vsin=10 km/sec. I didn't figure it out where I am making mistake. And this is how I am performing the calculation dlambda = vsini/c npoints = ALOG(lammax/lammin)/dlambda+1 interlam = lammin \* EXP(dlambda \* (DINDGEN(npoints)-1)) interflux = INTERPOL( flux, lam, interlam ) and then get the kernel as lsf = lsf rotate(delta V, vsini) fold = CONVOL( interflux, lsf, /CENTER, /EDGE TRUNCATE)

Subject: Re: convolution of vsini

Posted by abc on Wed, 23 Jan 2013 20:20:52 GMT

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