

Exercise 7

Inversion of IBIS profiles

IBIS: Interferometric Bidimensional Spectropolarimeter (INAF_Arcetri OBS/NSO)
@ Dunn Solar Telescope on Sacramento Peak

High spatial resolution

1. Profiles are not equally spaced in wavelength: interpolate to a 10 mÅ resolution and write a “-1” over the new points
2. The profiles are wider than FTS, then, as we have not the PSF, we should include a macroturbulence.

Example of Stokes profiles observed with a **Fabry-Pérot interferometer**.
High spatial resolution, but modest spectral resolution (20-30 mÅ at 617 nm).
To include points in the profile you can use:
`IDL> introduce_points,x,si,sq,su,sv, x1,si1, sq1,su1,sv1`
Where x is the old grid and x1 the new one