Exercise 5

<u>Inversion of quiet-Sun internetwork.</u>

Hinode/SP observations at disk center, integrated for 6 min, SNR~10⁵, still high spatial resolution.

Two lines Fe I 630.1 and 630.2 nm Extremely weak signals, but linear polarization clearly seen. Large asymmetries.

- 1. What kind of model would you use to invert them?
- 2. Use three cycles with increasing number of nodes.
- 3. Invert stray-light fraction, microturbulence (flat stratification).
- 4. Interpret resulting model.