

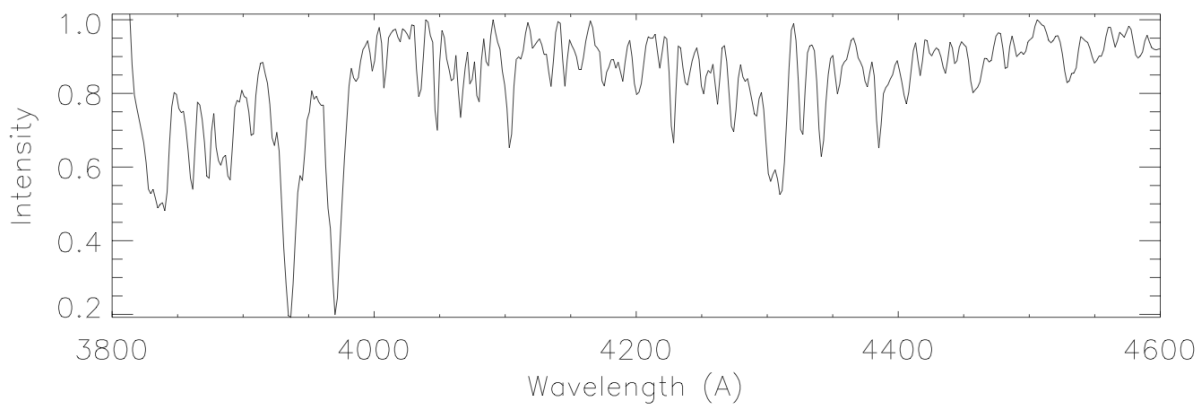
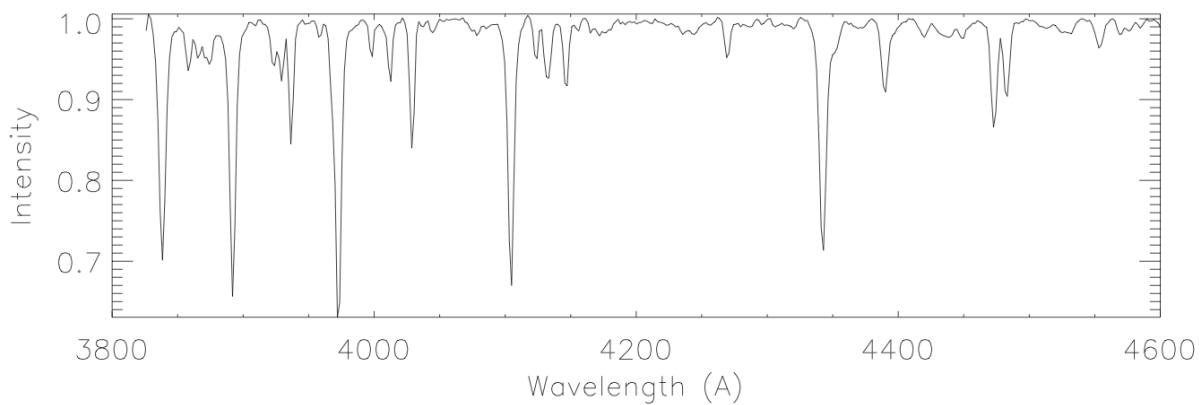
Topic 3: Luminosity and other issues

Questions for discussion:

- 1) Why does luminosity affect the appearance of a stellar spectrum?
- 2) Why does rotation broaden spectral lines?
- 3) How does the appearance of a spectral line change if there are more or less absorbing particles?

Homework questions:

Q3) a) Estimate the full MK spectral types of these two stars:



b) A spectral line at 4400 \AA that we would otherwise expect to be very narrow is observed to have a width of 2.5 \AA . Calculate $v \sin i$ for this star.