3.13 Spectral Line Widths

PRE-LECTURE READING 3.13

- Astronomy Today, 8th Edition (Chaisson & McMillan)
- Astronomy Today, 7th Edition (Chaisson & McMillan)
- Astronomy Today, 6th Edition (Chaisson & McMillan)

VIDEO LECTURE

• Spectral Line Widths¹ (5:20)

SUPPLEMENTARY NOTES

Spectral Line Broadening

- Observed absorption and emission line widths can be Doppler broadened by:
 - Thermal motions
 - Rotational motion
 - Turbulent motions
- Other mechanisms can also broaden, and sometimes even split, absorption and emission lines. We will learn more about these in Astronomy 102.

ASSIGNMENT 3

• Do Question 10.

¹http://youtu.be/V-hiT43_YGo