- Homework review
- Hour angle and declination – a problem with constantness
- The definition of right ascension
- Sidereal time
- The geometric representation of sidereal time
  - what happens at the meridian?
  - what happens when γ is at the meridian?
  - what happens when γ next crosses the meridian?
- The ecliptic – w.r.t. Sun, w.r.t. Earth
- Vernal (spring) equinox, automnal equinox, summer and winter solstices
- So where is this γ thingie anyhow?
- Right ascension and declination of the Sun are always changing!
  - what happens when the Sun is at a vernal equinox?
  - what happens when the Sun is at any of the other extrema?
- Ecliptic (celestial) latitude and longitude (leave some space for the transformations!)
- Sidereal time vs. local time
- Example: observing from Villanova (φ=40.0372^o, λ=75.3492^o), at what time tonight do we expect Betelgeuse (α Ori; R.A.=05^{h}55^{m}10^s, Dec=+07^{o}24'25") to culminate? When will it set?