

February 12, 2019
MSE 2103 topics

- Trigonometric parallaxes – details
 - recall the definition of a parsec
 - Proxima has the largest parallax: 0.747”
 - How far is Vega, if its parallax is 0.129”?
 - What is the parallax of Antares, if its distance is 190pc?
- Apparent magnitudes
 - *you covered apparent magnitudes in Lab B, remember?*
- The inverse square law for light
- Absolute magnitudes – apparent magnitudes at 10pc
- Equations
 - yep, we need them...
- The fundamentals of light
 - continuous or corpuscular (particle-like)?
 - speed in vacuum, speed in a medium
 - wavelength and color – Wien’s law
 - color and temperature – Planck’s law
 - temperature and brightness – Stefan-Boltzmann’s law