

March 4, 2021  
MSE 2103 topics

- Doppler shifts explain narrow/broad spectral lines!
- Life of a star on a H-R diagram revisited
  - if it makes sense, does it mean it has to be correct?
  - Eddington's mass-luminosity relationship
  - white dwarfs, neutron stars and black holes
- Using H-R diagram to get the distances to stars
- But wait, it gets even better! Main sequence fitting
- Digression first: apparent and absolute magnitudes
  - apparent corresponds to fluxes
  - absolute corresponds to luminosities
  - connection between the two?
- Recollection next:
  - open clusters: young, small-ish, in the disk of the galaxy
  - globular clusters: old, large-ish, in the halo of the galaxy
- Distances to clusters of stars
- Bonus: ages of stars in clusters from the turn-off point!