

February 28, 2019
MSE 2103 topics

- Test question: life of a star on the H-R diagram
- Stellar graveyard: white dwarfs, neutron stars, black holes
- 98% of stars will end up as white dwarfs!
- Soooo... how many do we know of?
- Low mass stars turning into white dwarfs?
- Pauli's exclusion principle and degenerate states
- Carbon/oxygen cores
- Life on the horizontal branch
- Puffing off outer layers
- Once a white dwarf, always a white dwarf
- The cooling of white dwarfs
- Find the faintest white dwarfs ... to find the oldest ones
- ... but we simply do not find white dwarfs cooler than $\sim 4000\text{K}$
- What does that imply?