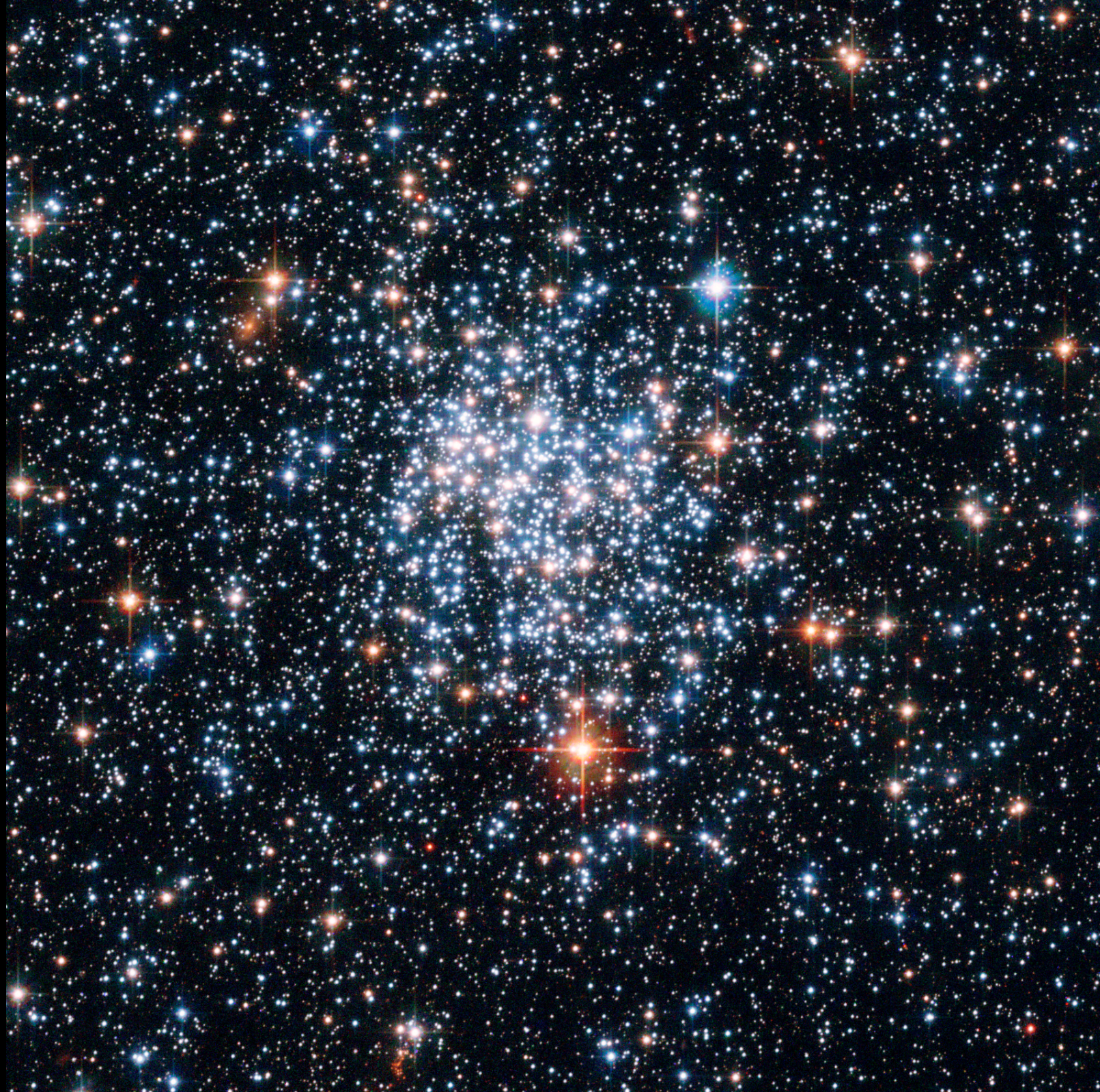
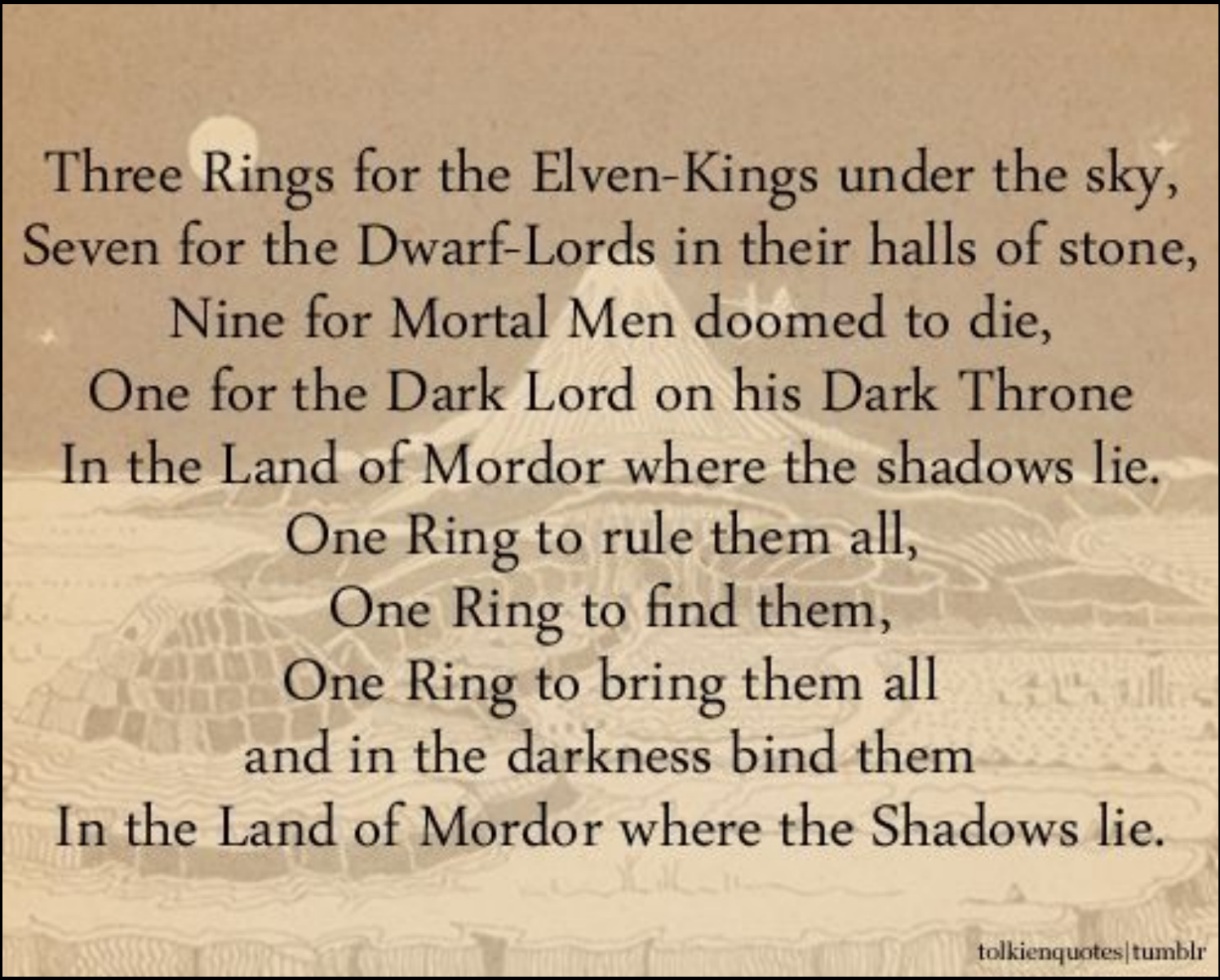


The Structure and Evolution of Stars

Lecture 2

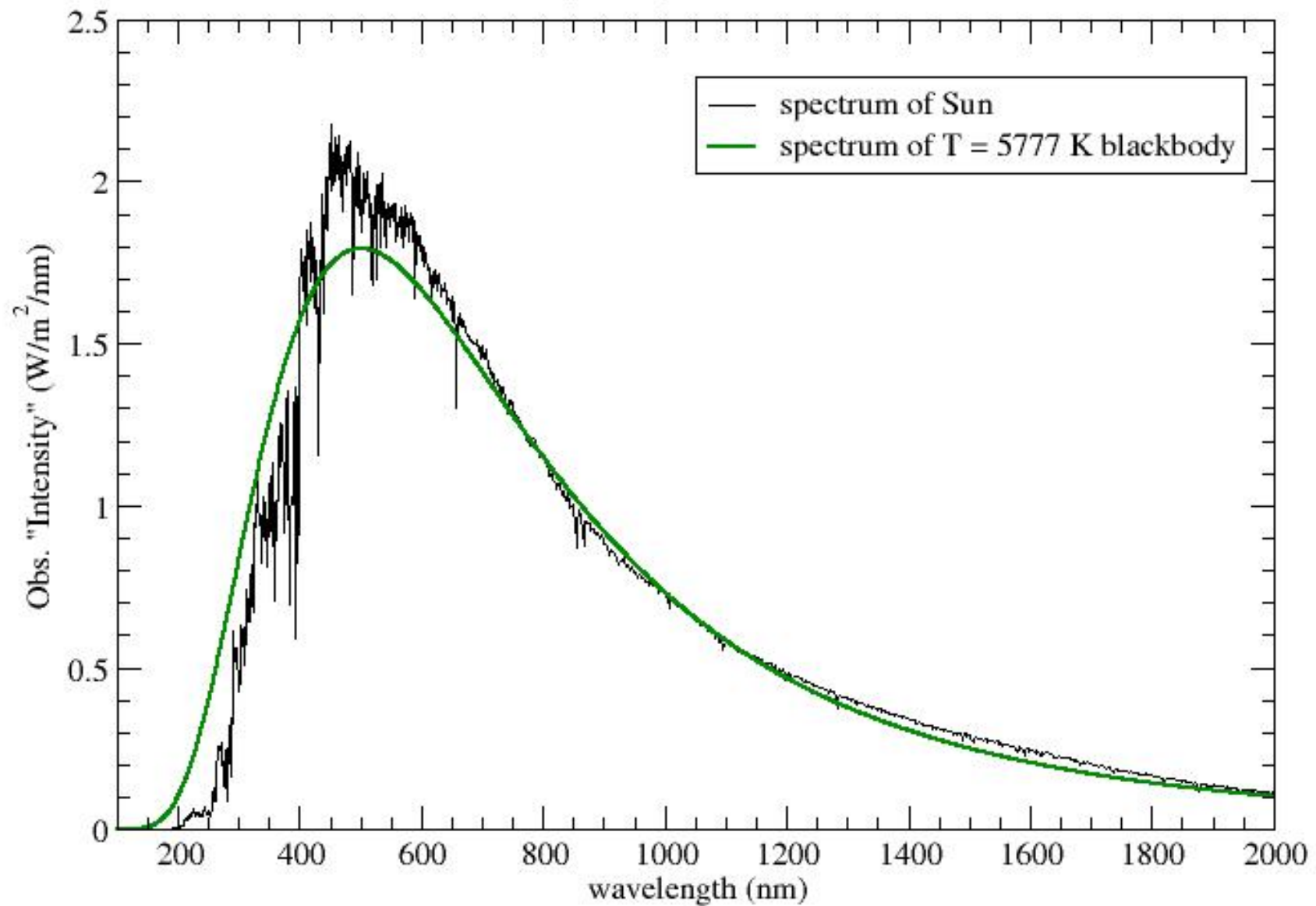


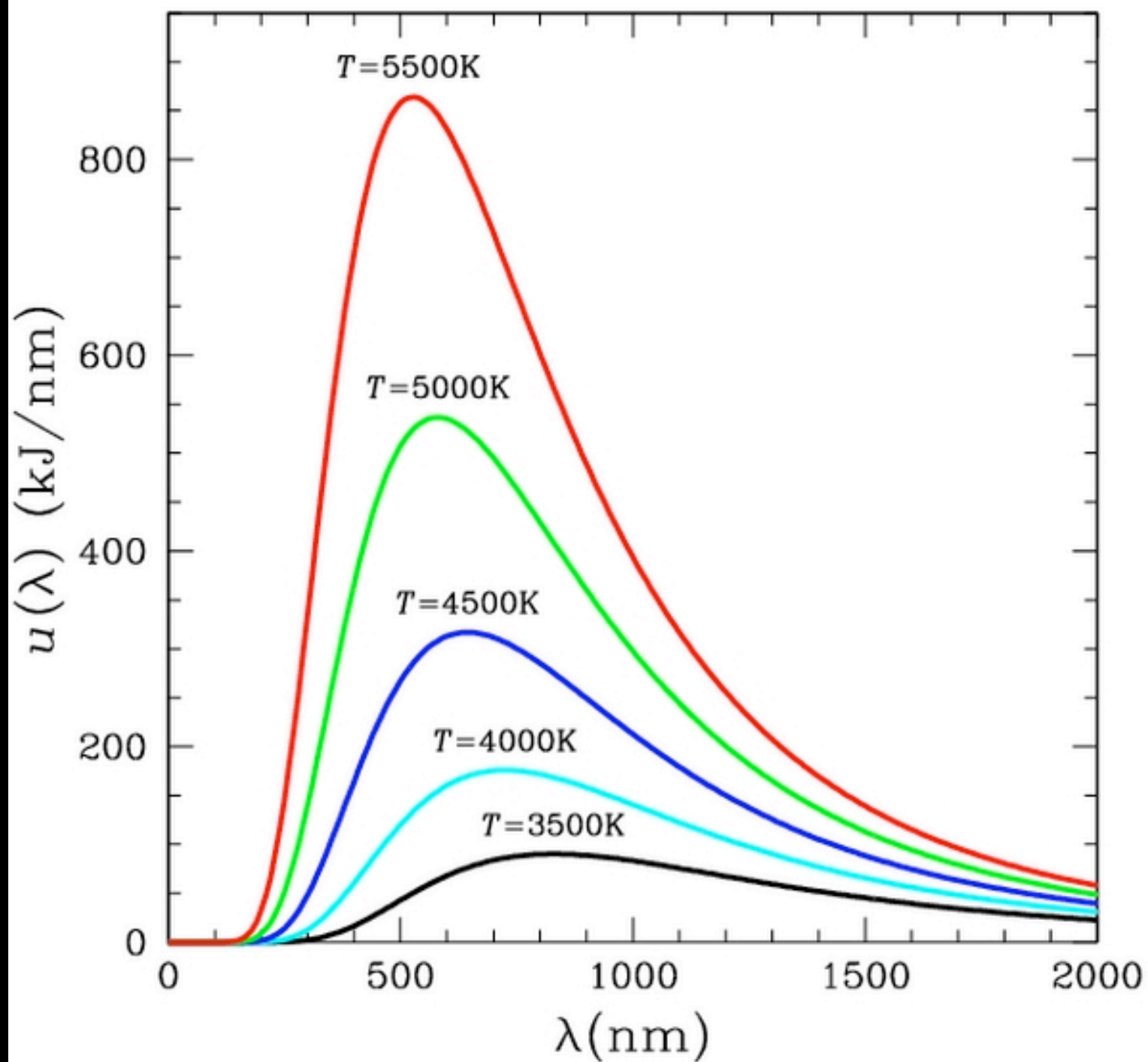


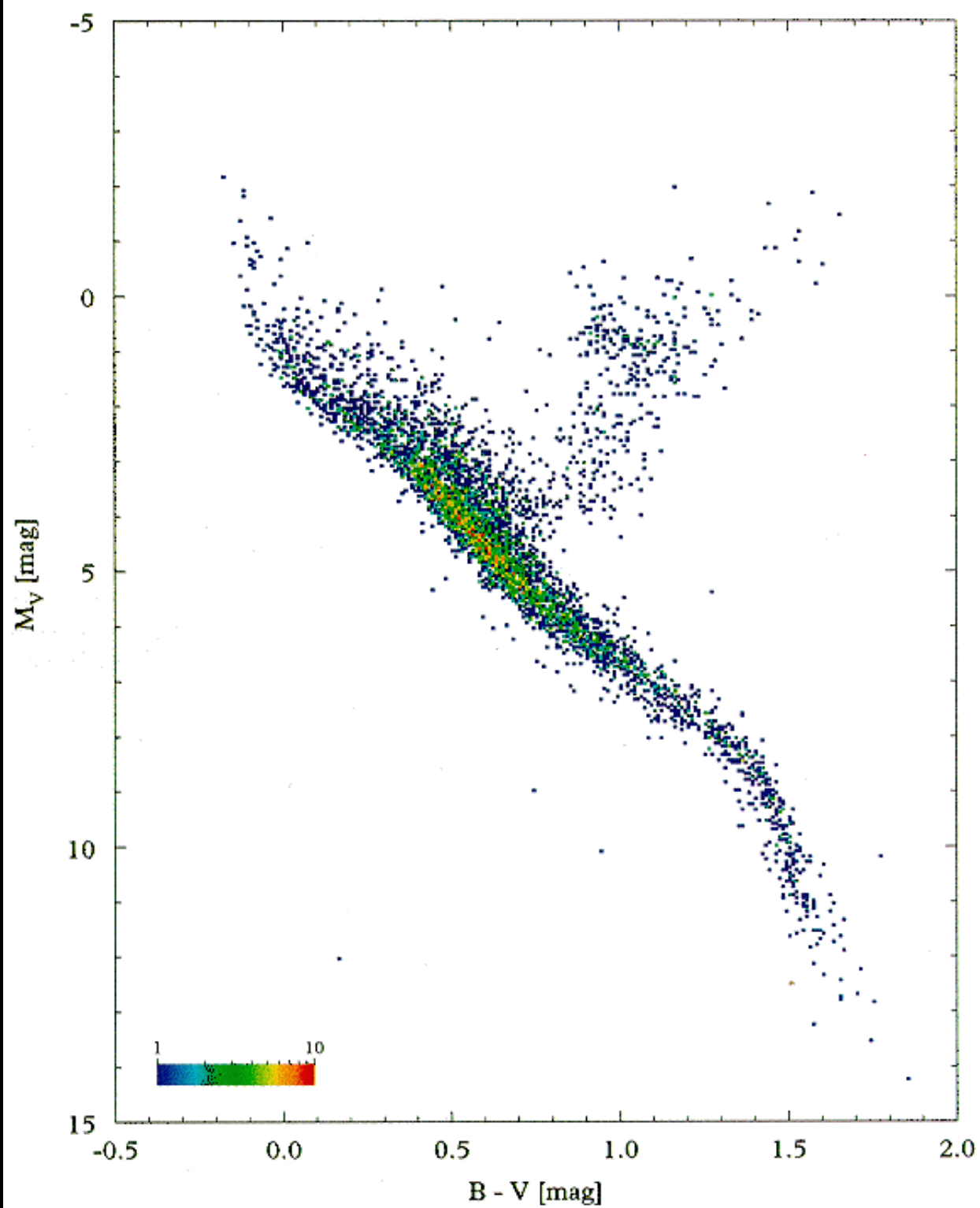
Three Rings for the Elven-Kings under the sky,
Seven for the Dwarf-Lords in their halls of stone,
Nine for Mortal Men doomed to die,
One for the Dark Lord on his Dark Throne
In the Land of Mordor where the shadows lie.
One Ring to rule them all,
One Ring to find them,
One Ring to bring them all
and in the darkness bind them
In the Land of Mordor where the Shadows lie.

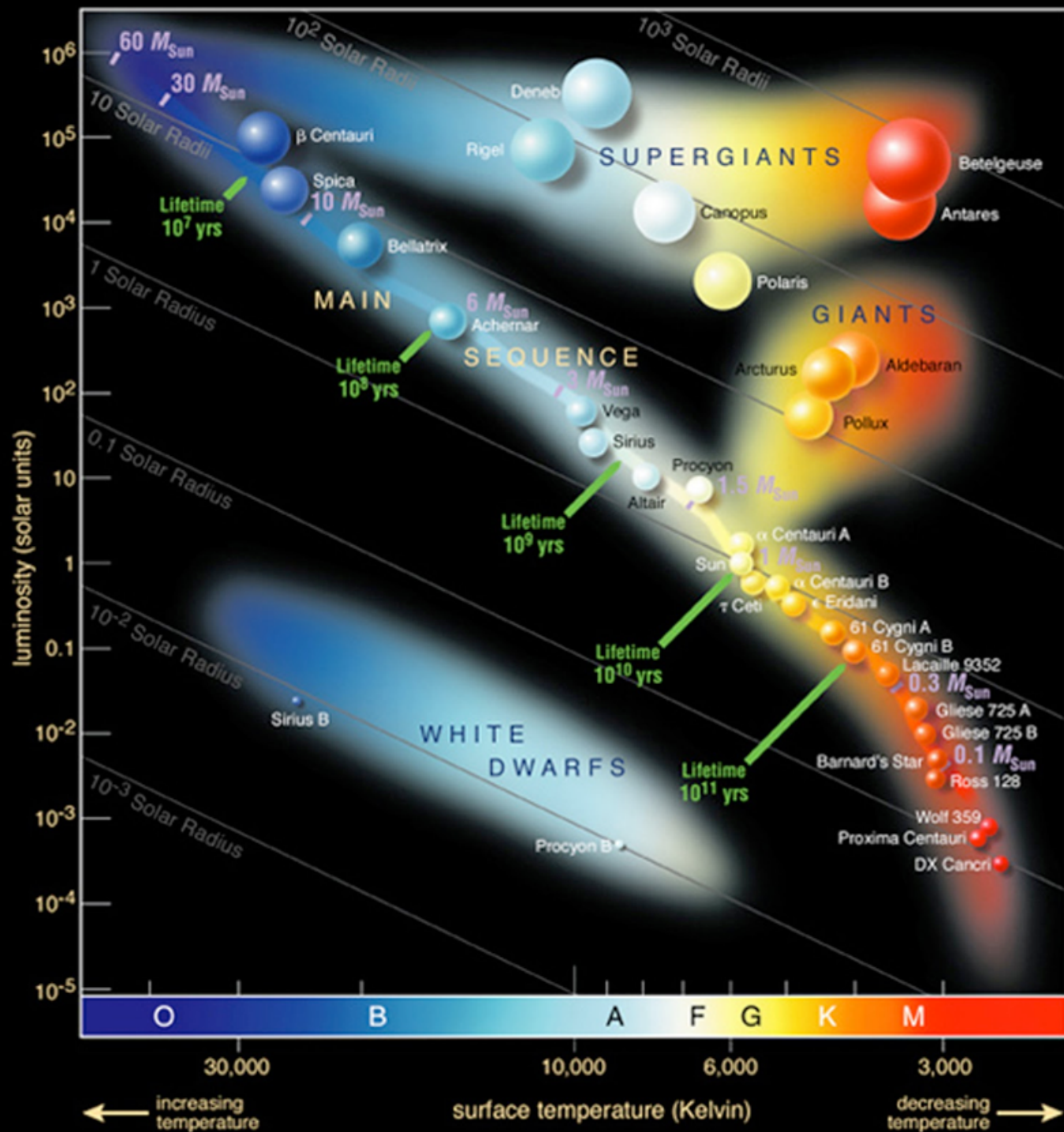
Sun's Spectrum vs. Thermal Radiator

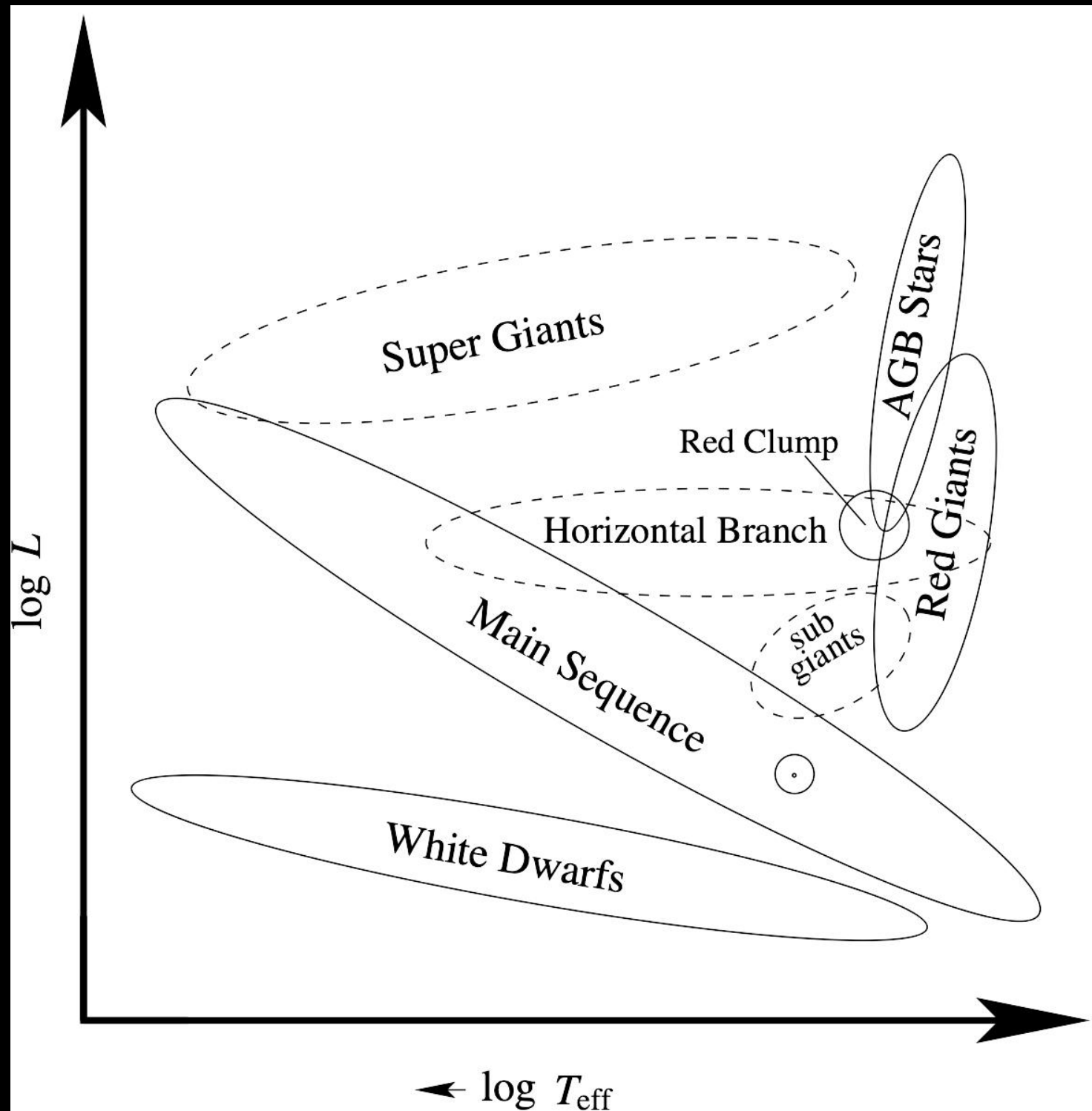
of a single temperature $T = 5777 \text{ K}$

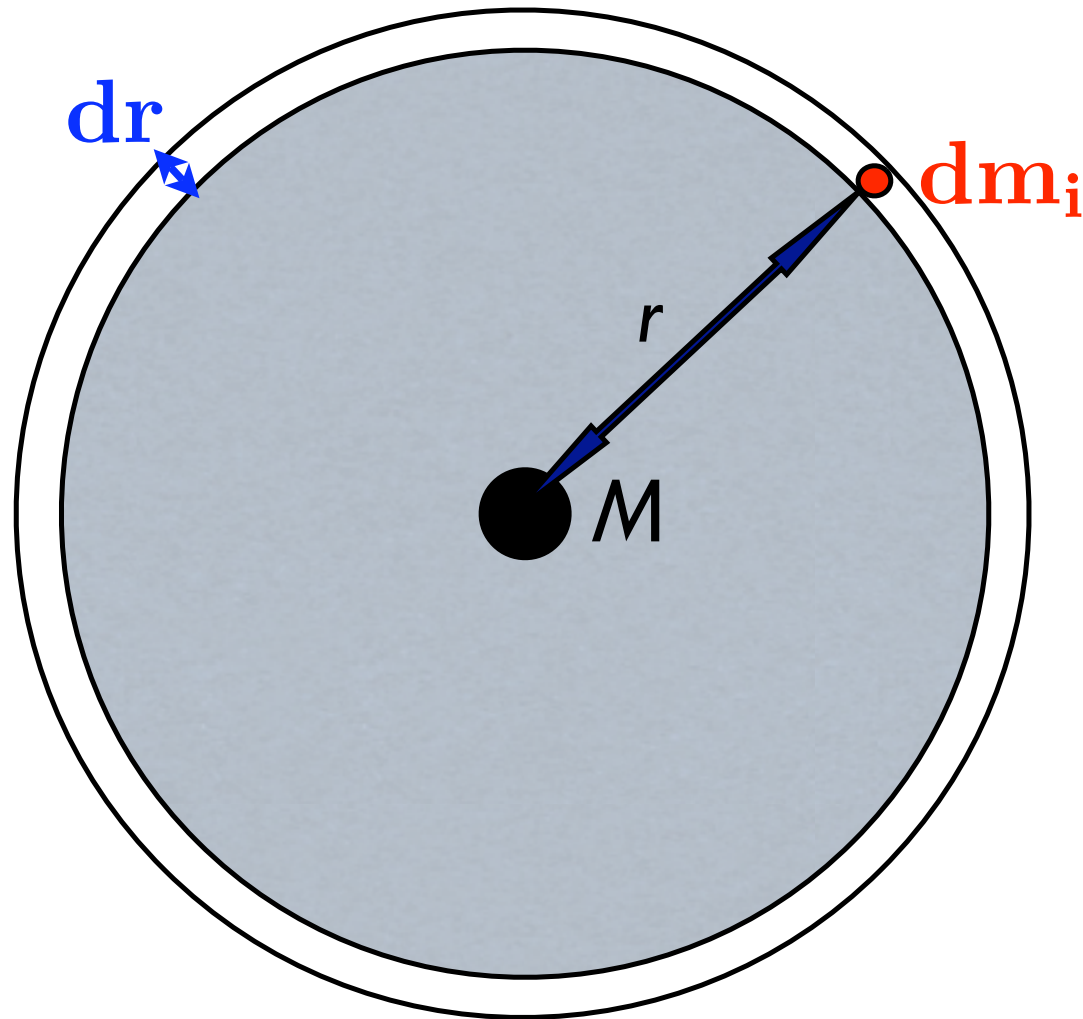


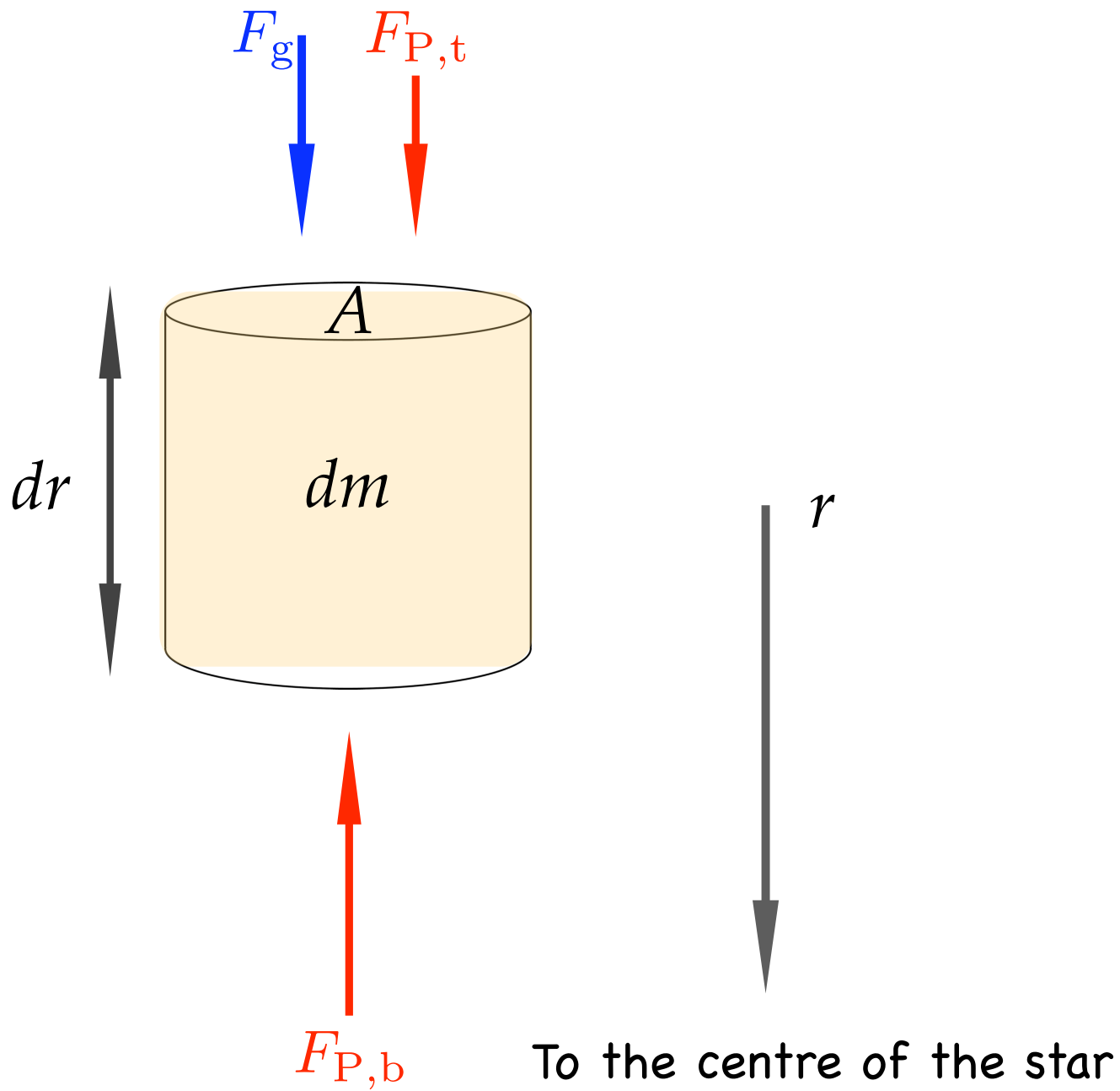




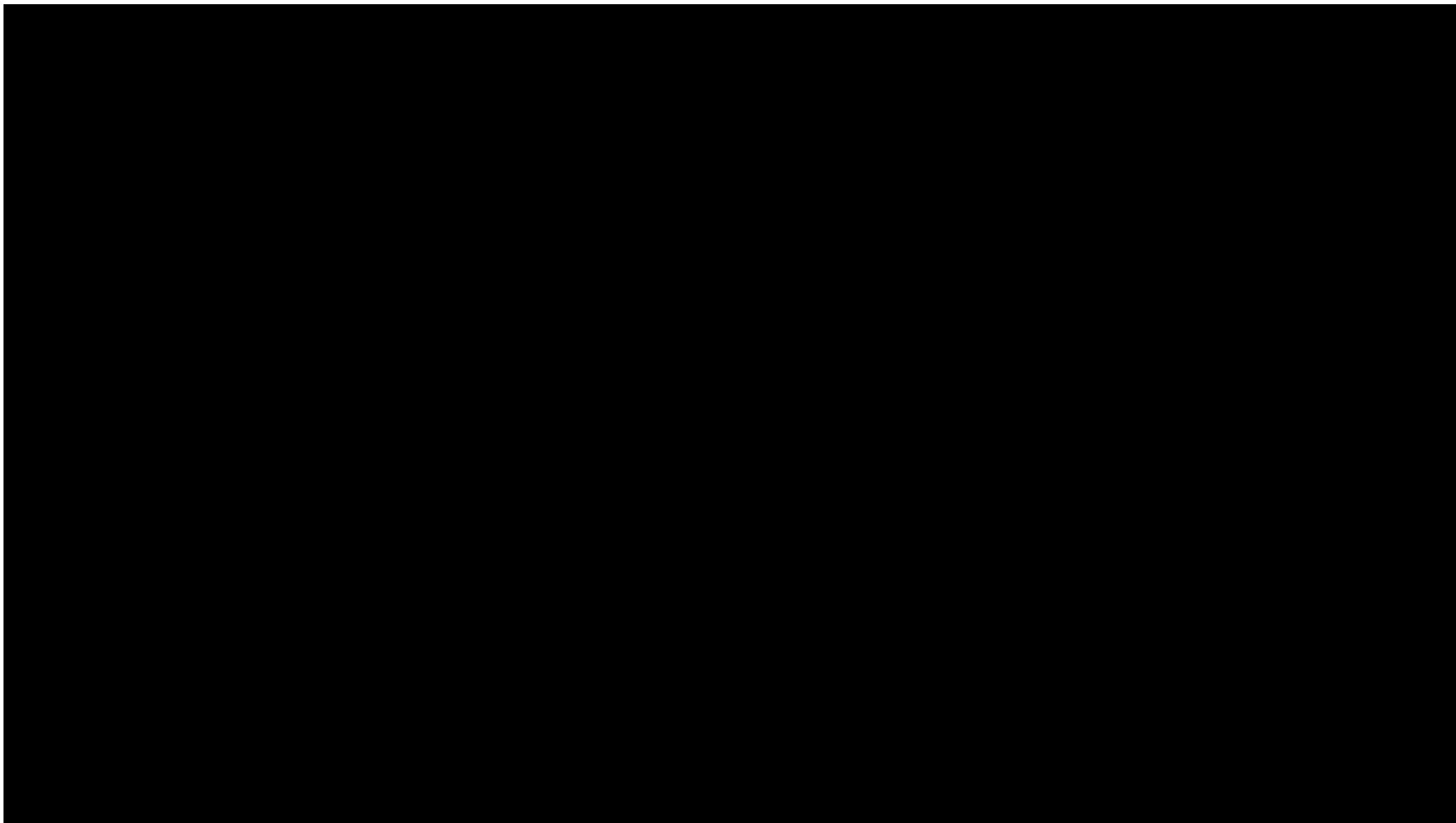


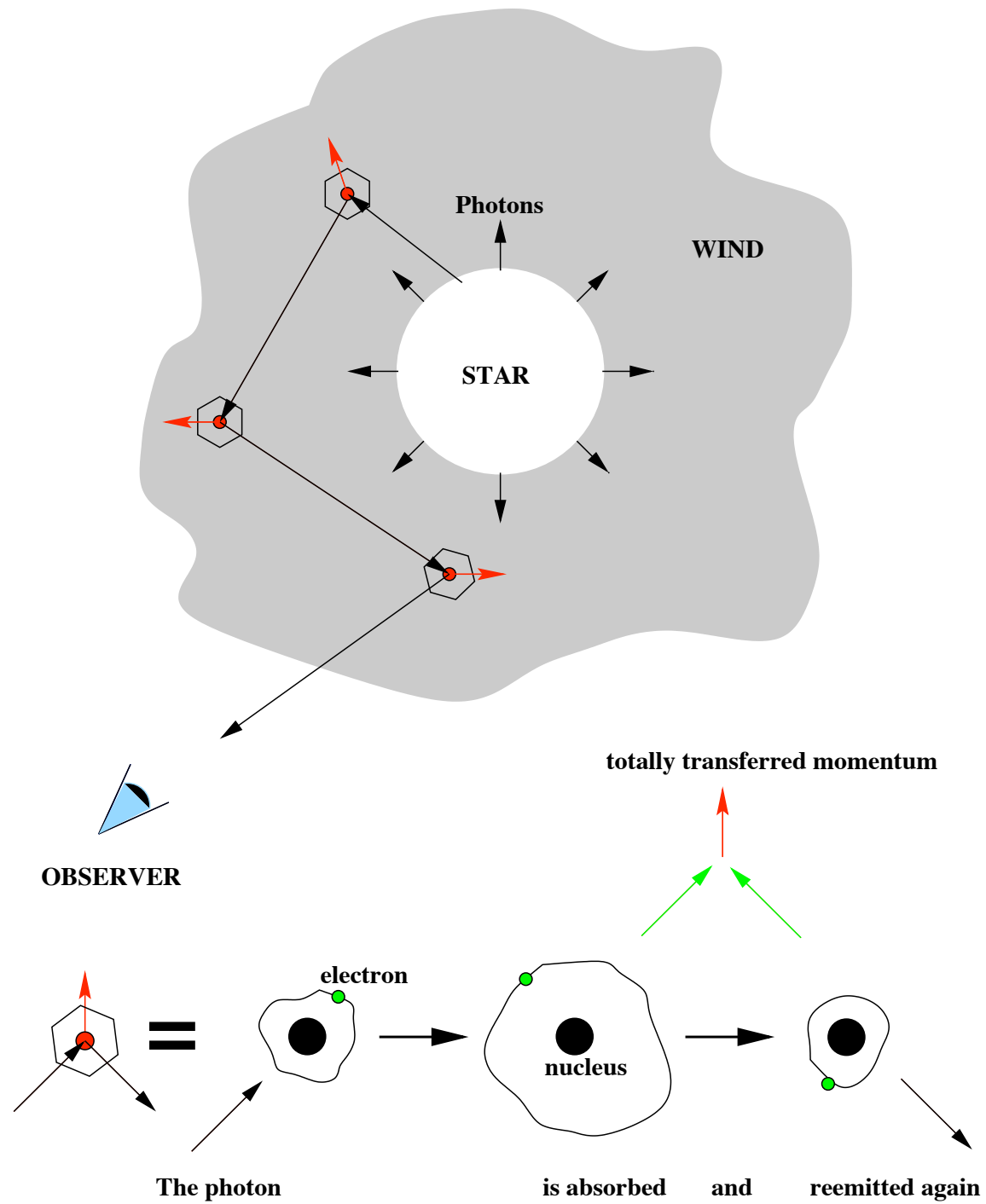




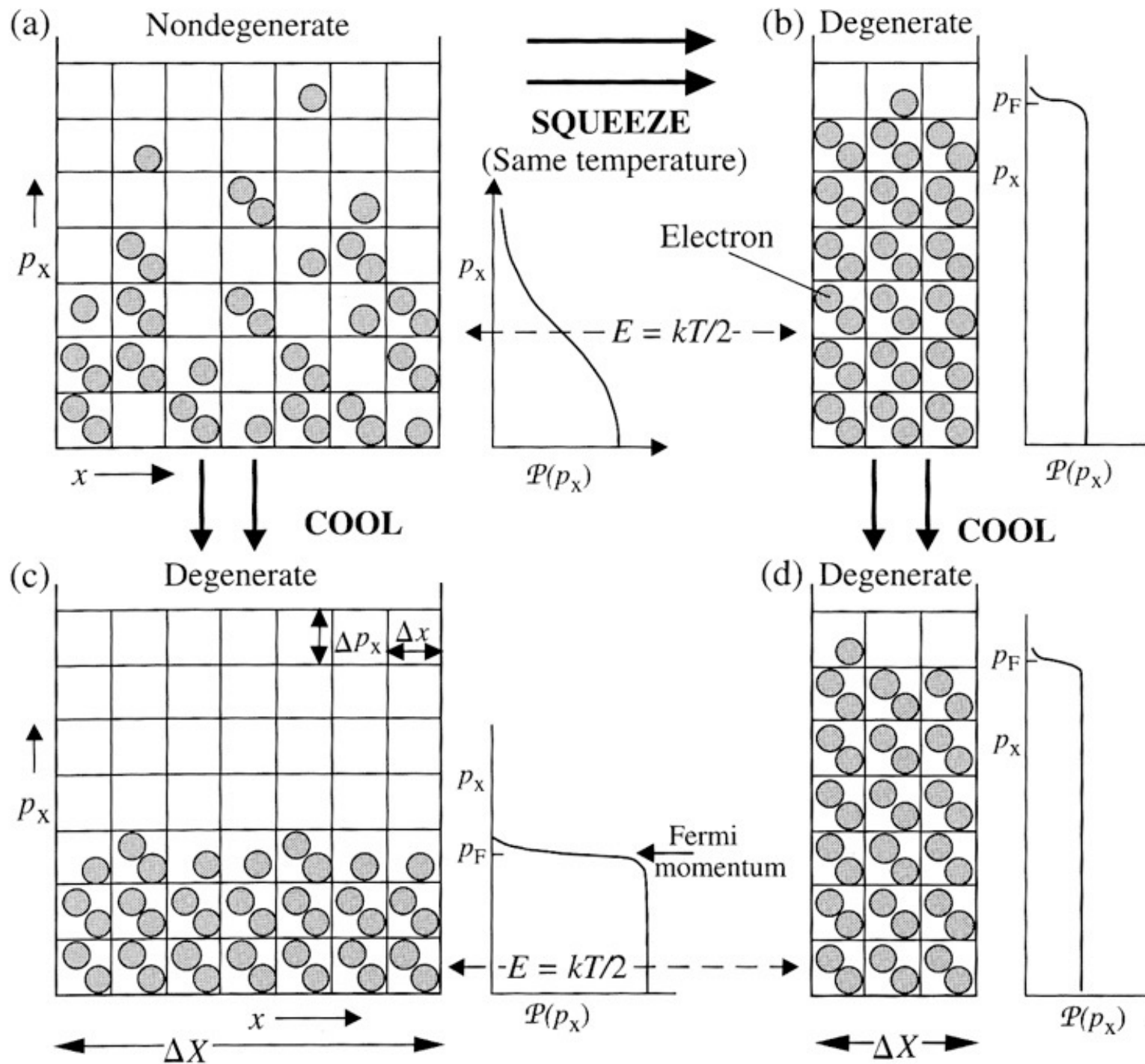




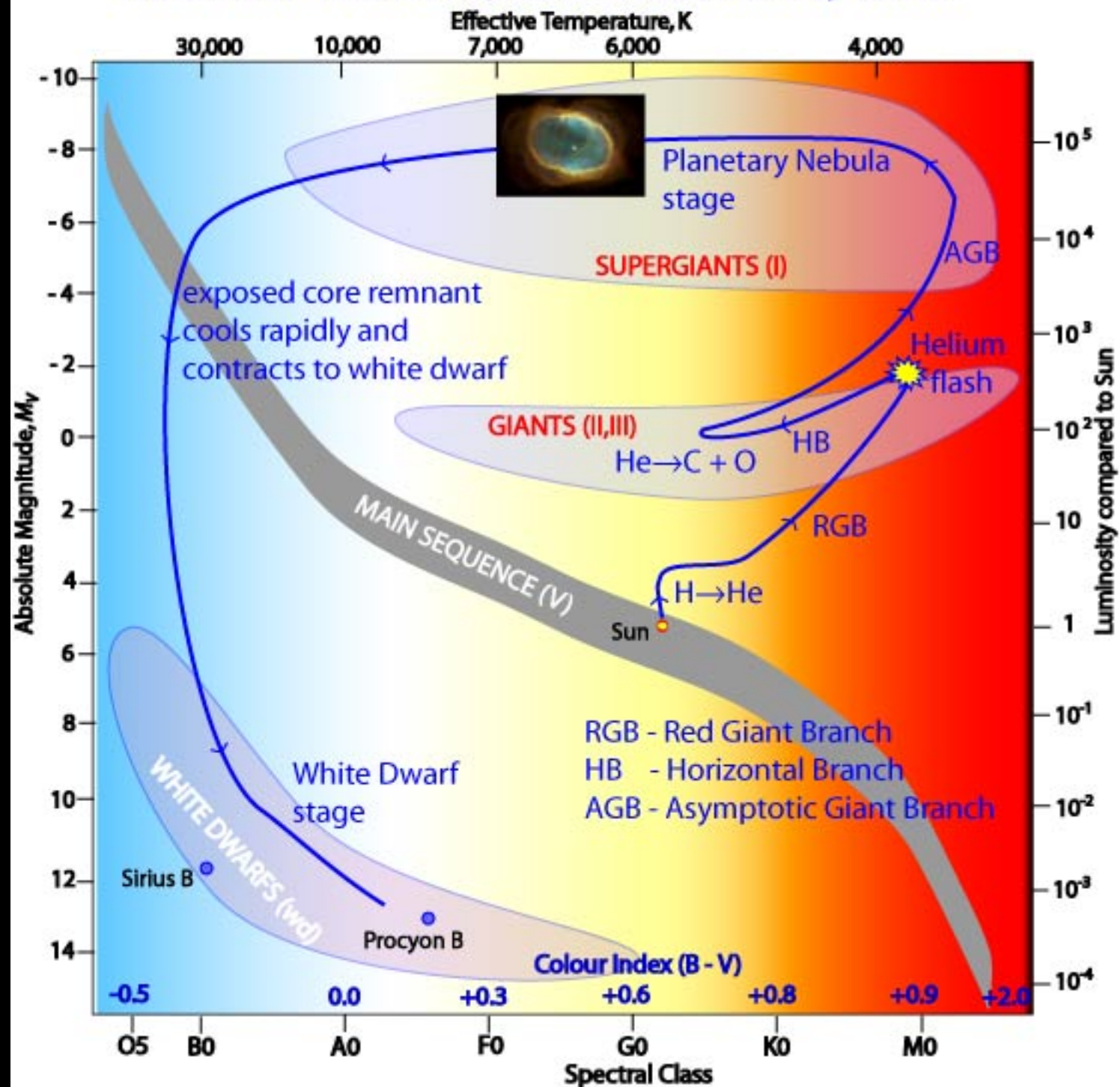








Sun's Post-Main Sequence Evolutionary Track

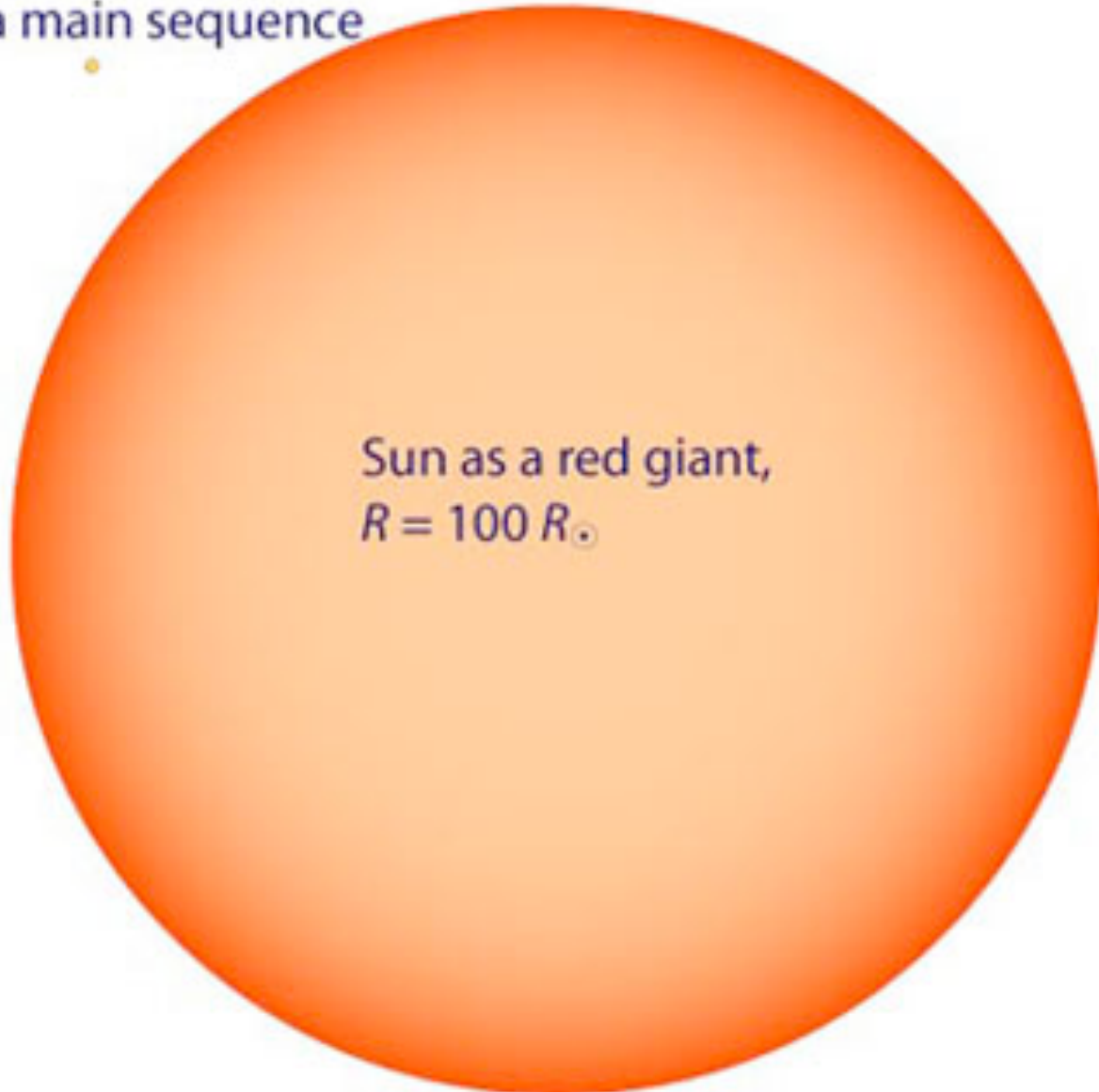


Comparison in size of Sun as a main sequence star and a red giant

Sun as a main sequence star



Sun as a red giant,
 $R = 100 R_{\odot}$





The Life of the Sun

