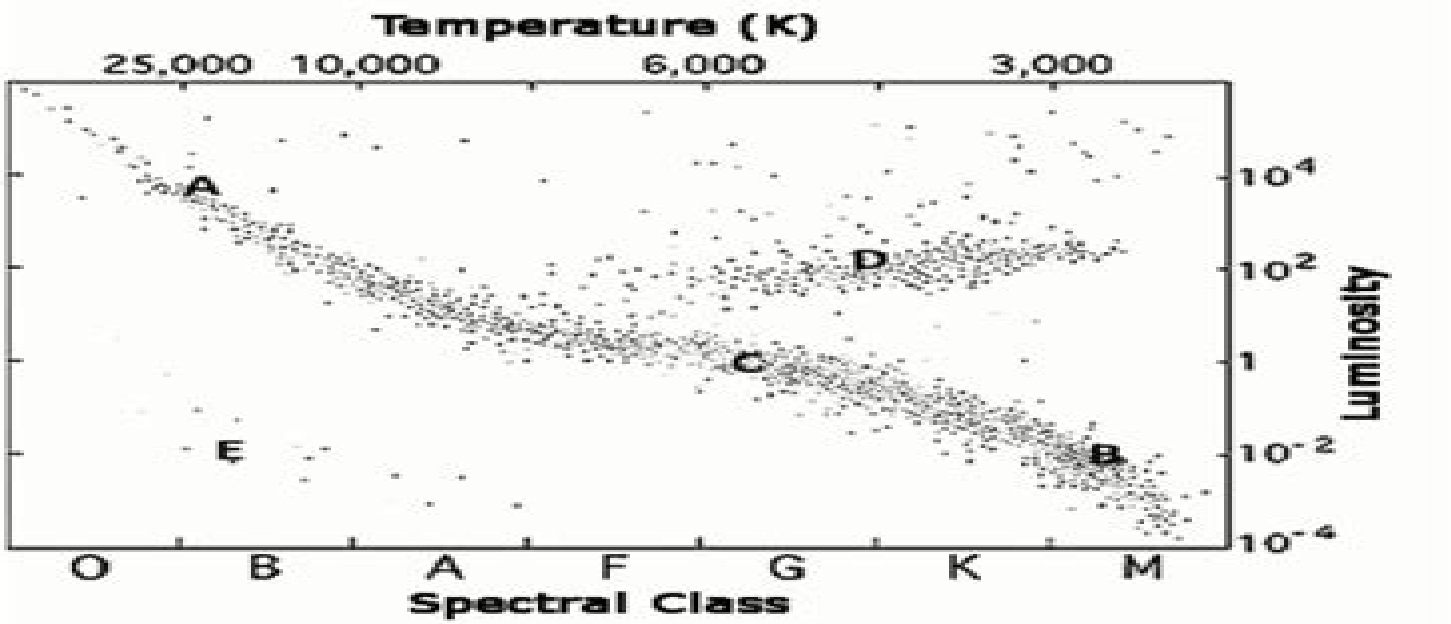
Astronomy 110 Lab Exercise: Hertzsprung-Russell Diagram



In the above HR diagram, the luminosity is given in units of the Sun's luminosity. In other words, 1 means the same luminosity as the Sun; 10^2 means 100 times the luminosity of the Sun (or in short, 100 solar luminosities), and so on.

Part 1: Temperature versus Luminosity of Stars

1. In the HR diagram above, imagine that there is a star at each labeled position A-E. Of these stars, which star has the greatest luminosity?

2. Which stars have roughly the same temperature? Which stars have roughly the same luminosity?

4. Do stars with the same temperature necessarily have the same luminosity? If so, explain how; if not, give a counterexample from the labeled stars in the diagram.

5a. Which of the labeled stars is the most like our Sun? (Recall the Sun's surface temperature T=5800K.)

5b. What would be the approximate luminosity of a main sequence star with temperature 12,000 K? What spectral type would this star have?

6. Which star(s) above would appear reddish in color? Which star(s) would appear bluish? Explain.

7. The diagonal band of stars that star A, B, and C lie on is called the *main sequence*. For a star on the

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