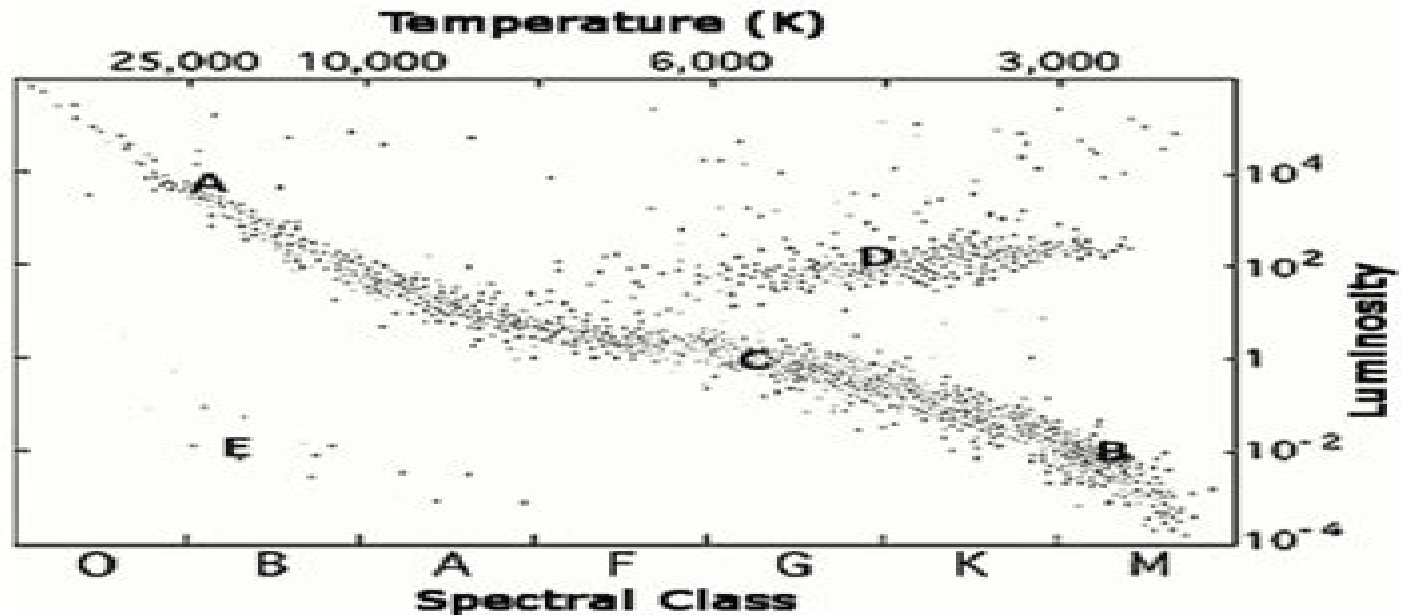


Astronomy 110 Lab Exercise: Hertzsprung-Russell Diagram



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 $T=5800\text{K}$.)
- 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

Hertzprung Russell Diagram Lab Answers

Michael C. LoPresto, Jeffrey O. Bennett



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Astronomy Media Workbook for The Cosmic Perspective, The Essential Cosmic Perspective Michael C. LoPresto, 2005
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Magnetic Fields Across the Hertzsprung-Russell Diagram Gautier Mathys, Sami K. Solanki, Dayal T. Wickramasinghe, 2001 **Astronomy Media Workbook** Michael C. LoPresto, Jeffrey O. Bennett, 2007 This revised and expanded popular media workbook is provided with all new copies of Bennett's book and includes a wide selection of in depth activities using resources from The Astronomy Place and Voyager SkyGazer College Edition v3.6 planetarium software These thought provoking projects are suitable for the lab or as assignable homework assignments **Energy Research Abstracts** ,1980 **Nuclear Science Abstracts** ,1967-11 *Research at the Kellogg Radiation Laboratory, 1920s-1960s* Olivia Weaver Walling, 2005 New Trends in Astronomy Teaching L. Gouguenheim, D. McNally, J. R. Percy, 1998-10 How do students learn astronomy How can the World Wide Web be used to teach And how do planetariums help with educating the public These are just some of the timely questions addressed in this stimulating review of new trends in the teaching of astronomy Based on an international meeting hosted by the University of London and the Open University IAU Colloquium 162 this volume presents articles by experts from around the world The proceedings of the first IAU Colloquium 105 The Teaching of Astronomy edited by Percy and Pasachoff were first published in 1990 and soon became established as the definitive resource for astronomy teachers Astronomy education has advanced enormously in the intervening 7 years and this sequel will inspire and encourage teachers of astronomy at all levels and provide them with wealth of ideas and experience on which to build A Selected Listing of NASA Scientific and Technical Reports for 1966 United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1967 **A Selected Listing of NASA Scientific and Technical Reports for ...** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966 U.S. Government Research & Development Reports ,1966-11 NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1967 **Conference Papers Index** ,1978 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues *Technical Abstract Bulletin* ,1965
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