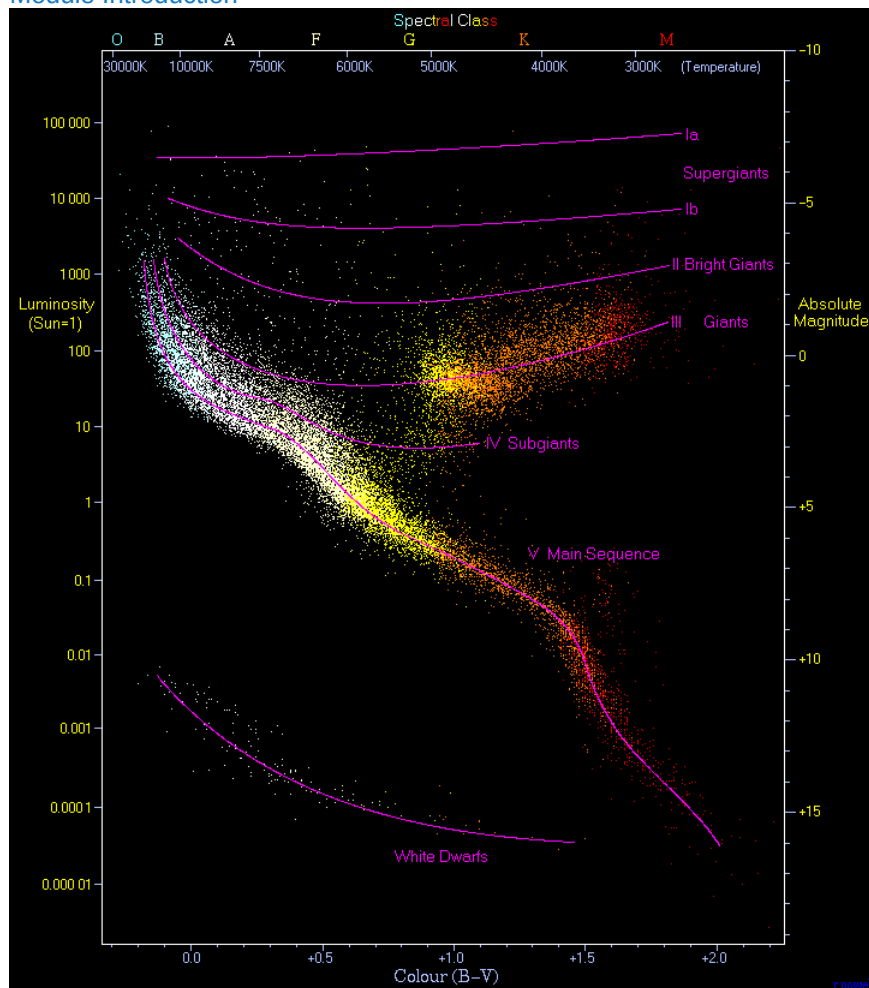


11.1: Introduction

Astronomy Laboratory 11 – The H-R Diagram

Module Introduction



Hertzsprung-Russell diagram, or H-R diagram. Some 22,000 stars make up the data for this specific illustration. [HRDiagram](#) by Richard Powell is licensed under [CC BY-SA 2.5](#)

The Hertzsprung-Russell Diagram, H-R Diagram, is a useful tool which plots stellar luminosity versus temperature. Building on the Star Colors and Spectroscopy lab, you will detail how the H-R Diagram works, and plot some of the stars observed in Lab 10, Star Colors and Spectroscopy. ⁽¹⁾

Objectives

At the end of this module, students will be able to:

- Plot a H-R diagram using provided data
- Analyze the data and make interpretations using the H-R diagram ⁽¹⁾

Outcomes

The material in this module includes content designed to meet the following course outcomes:

- Explain and apply major concepts in astronomy including planets, satellites, stars, meteors, galaxies, and theories of the universe.
- Demonstrate knowledge of scientific method.
- Communicate scientific ideas through oral or written assignments.

- Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.
- Demonstrate the ability to think critically.
- Demonstrate the ability to use scientific and quantitative reasoning. ⁽¹⁾

Assigned Readings

Learning Unit 11

Assignments

- Plotting a H-R Diagram Exercise
- Lab 11 Quiz ⁽¹⁾

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