

## *Hr Diagram Lab Answers Globular Open Cluster*

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### **Hr Diagram Lab Answers Globular**

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### **Hr Diagram Lab Answers Globular Open Cluster**

For this lab, you will be using “H-R” (or equivalently, “Hertzprung-Russell”) diagrams to observe the temperature and brightness of stars in several globular and open clusters. As you have seen in class, the H-R diagram plots temperature along the horizontal x-axis, and luminosity on the vertical axis.

### **Lab #7 The Distances and Ages of Star Clusters 0.1 Due July 14th - University of Arizona**

Objective: Students will plot, label and interpret the Hertzprung Russell Diagram. Background: You are about to create your own HR Diagram, a chart that revolutionized the study of stars. You will have a labeled chart and a series of points to plot. From these points, you can deduce a lot of information about stars!

### **Objective Students will plot, label and interpret the Hertzprung Russell Diagram. - - Teacher-Centered**

Continue reading the rest of the SDSS HR Diagram lab from where you left off in Lab 2, Part 1 (you had just worked on Exercise 2). There are pages on parallax, creating HR diagrams for an open cluster (the Pleiades) and a globular cluster (Palomar 5). You are not required to do any of the exercises on these pages.

### **Lab 2, Part 2 | Astronomy 801: Planets, Stars, Galaxies, and the Universe - John A. Dutton e-Education Institute**

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Globular clusters are very massive objects that contain hundreds of thousands or perhaps a million stars. The HR diagram for a typical globular cluster looks very different than that of an open cluster. There are no Main Sequence stars of types OBAF, but there are many red giants.

### **Globular Clusters | Astronomy 801: Planets, Stars, Galaxies, and the Universe - Pennsylvania State University**

To discuss the properties of globular clusters. To illustrate some of the stages of stellar evolution. To measure the Hertzprung-Russell (colour-magnitude) diagram for the globular cluster NGC 104. To estimate the apparent magnitude of the Horizontal Branch and hence the distance to the cluster.

### **H-R Diagram for a Globular Cluster - Durham University**

The NAAP HR Diagram Lab explores the Hertzprung-Russell diagram and those areas necessary to understand the diagram such as (but not limited to) the different kinds of spectrum, spectral classification, and luminosity class. In short, this module provides a fairly in-depth tutorial in reading HR diagrams.

### **Hertzsprung-Russell Diagram - NAAP**

Hertzsprung-Russell Diagram Answer Key. Use the H-R diagram to answer the questions below. 1. A H-R diagram shows the relationship between what two properties of stars? temperature/spectral class and brightness/absolute magnitude; 2. According to the diagram, what is the approximate temperature of the Sun? ...

### **Hertzsprung-Russell Diagram Answer Key - HelpTeaching.com**

OPEN CLUSTERS LAB What will you learn in this Lab? ... globular. The two have very different life histories, with the former being a relatively young object, and the latter generally being very old and dating back to the formation of the galaxy ... In this H-R diagram (Figure 3), the two axes represent two observables: the brightness of

### **OPEN CLUSTERS LAB - Astronomy Lab II.**

H-R Diagram of a Globular Cluster. Clusters like the Pleiades lie deep within our galaxy. The SDSS, on the other hand, looks primarily above and below the plane of the galaxy. This view is great for seeing distant galaxies and quasars, but it is not very good for seeing star clusters.

### **H-R Diagram of a Globular Cluster - skyserver.sdss.org**

You can assume that all the stars are at the same distance. Students will see the difficulty of creating an H-R diagram due to the large amount of data necessary. They will then use one of two simple tools to search the data and make an H-R diagram for a globular cluster using hundreds of data points. Questions and Exercises

### **H-R Diagram - Teacher's Guide - SDSS SkyServer DR14**

Lab #6. The Hertzsprung-Russell Diagram and Stellar Evolution . Students explore the basic phases of stellar evolution on and beyond the Main Sequence, and learn to utilize a Hertzsprung-Russell (color-magnitude) diagram to understand the relationship between fundamental parameters for stars such as mass, luminosity, temperature, and age.

### **Lab #6. The Hertzsprung-Russell Diagram and Stellar Evolution - NMSU Astronomy**

Should you just want to proceed with the activities, I created a Stars and the H-R Diagram: Student Lab Sheet and include it in the resource section. However I really encourage you to explore the electronic options if possible.

### **Stars and the H-R Diagram: Student Lab Sheet - BetterLesson**

HR Diagram – Student mini-lab Name: Jason Rojas Background Information Work through the background sections on Spectral Classification, Luminosity, and the Hertzsprung-Russell Diagram. Then complete the following questions related to the background information. Background information and HR diagram Explorer can be found at.

### **HR\_Diagram Sheet - HR Diagram Student mini-lab Name Jason Rojas Background Information Work through the background sections on Spectral Classification - Master Your Classes™ | Course Hero**

Lab 6 The Hertzsprung-Russell Diagram and Stellar Evolution 6.1 Introduction On a clear, dark night, one might see more than two thousand stars. Unlike our distant ancestors, we recognize that each one is a huge ball of hot gas that radiates energy, like our own (very nearby) star, the Sun. Like the Sun, the stars shine by converting hydrogen

### **Lab 6 The Hertzsprung-Russell Diagram and Stellar Evolution**

3. Which type of cluster is older? Globular or Open 4. Which type of cluster is associated with recent star forming regions? Globular or Open HR Diagram The ability to analyze open clusters hinges on our knowledge of the Hertzsprung-Russell Diagram (other names: HR Diagram, Color Magnitude Diagram), an incredibly useful tool for

**NAME: OPEN CLUSTER PRELAB** The first place to look for answers is in the lab script!

**Open Cluster: Main Sequence: Turnoff point - Arizona State University**

More HR diagram Fun. This "family portrait" is an HR diagram with five stars on it and a background of the color each star would look through the filter of a spectrophotometer. There are some questions to answer about the stars. Click the picture for interactive version with questions.

**HR Diagram - Interactive - Cosmic Ray**

NAAP Labs: Hertzsprung-Russell Diagram Lab View: The NAAP HR Diagram Lab explores the Hertzsprung-Russell diagram and those areas necessary to understand the diagram such as (but not limited to) the different kinds of spectrum, spectral classification, and luminosity class. In short, this module provides a fairly in-depth tutorial in reading HR ...

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