

Lab 5 Star Spectra

Vocabulary: absorption spectrum, binary star, blueshift, Cepheid variable, emission spectrum, giant star, nebula, redshift, spectrum, star

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when light goes through a prism? It is bent, or refracted, by the angles and plane faces of the prism and each wavelength of light is refracted by a slightly different amount.

This band of colors is called a **spectrum**.

2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

Red, orange, yellow, blue, indigo, violet

Gizmo Warm-up

The interior of a **star** produces a continuous spectrum of light, like a rainbow. Cooler gases in the outer layers of the star absorb certain wavelengths of light, causing dark lines to appear in the spectrum. The resulting **absorption spectrum** can tell astronomers a great deal about the star.

1. On the *Star Spectra* Gizmo, turn on **Show labels**. Select **star 1** to see its absorption spectrum.

How many lines do you see in the spectrum? five



2. Drag the **Hydrogen** spectrum next to the **Star spectrum** so that the edges line up. Do some of the lines on the two spectra match up? Yes four lines on the spectrum do line up
3. Drag the **Helium** spectrum next to the **Star spectrum**. Do some lines match? Yes some do match
4. Try out the other available spectra. Do any others have lines that match? No
5. Which elements have contributed to the spectrum of **star 1**? Hydrogen and helium

Note: The elements in a star's spectrum do not necessarily reflect what the star is made of. The absorption spectrum is mostly determined by the surface temperature of the star.

Answers For Virtual Astronomy Lab

Karel van der Hucht



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Proceedings of the 5th International Conference on Big Data Analytics for Cyber-Physical System in Smart City—Volume 1 Mohammed Atiquzzaman, Neil Yen, Zheng Xu, 2025-02-01 This book gathers a selection of peer reviewed papers presented at the 5th Big Data Analytics for Cyber Physical System in Smart City BDCPS 2023 conference held in Fuyang China on December 28 29 The contributions prepared by an international team of scientists and engineers cover the latest advances and challenges made in the field of big data analytics methods and approaches for the data driven co design of communication computing and control for smart cities Given its scope it offers a valuable resource for all researchers and professionals interested in big data smart cities and cyber physical systems *Highlights of Astronomy: Volume 14* Karel van der Hucht, 2008-01-21 Recording the proceedings of the IAU XXVI General Assembly this volume of the IAU Highlights of Astronomy covers virtually all aspects of modern astrophysics as discussed by 2400 participants from 73 countries Notably the common aspects of astrophysical phenomena known to exist in widely differing interstellar environments is thoroughly examined providing fertile cross correlation from one specialisation to another This text highlights the importance of the triennial IAU General Assemblies in bringing together the work of observers and theoreticians in widely different fields but working towards a common goal understanding the physics of the Universe Together with the Proceedings of the IAU Symposia 235 240 this volume examines all of the astrophysics presented at the General Assembly Remote Instrumentation and Virtual Laboratories Franco Davoli, Norbert Meyer, Roberto Pugliese, Sandro Zappatore, 2010-03-10 Accessing remote instrumentation worldwide is one of the goals of e Science The task of enabling the execution of complex experiments that involve the use of distributed scientific instruments must be supported by a number of different architectural domains which inter work in a coordinated fashion to provide the necessary functionality These domains embrace the physical instruments the communication network interconnecting the distributed systems the service oriented abstractions and their middleware The Grid paradigm or more generally the Service Oriented Architecture SOA viewed as a tool for the integration of distributed resources plays a significant role not only to manage computational aspects but increasingly as an aggregator of measurement instrumentation and pervasive large scale data acquisition platforms In this context the functionality of a SOA allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common working environments to their users but the peculiar aspects of dealing with real instruments of widely different categories may add new functional requirements to this scenario On the other hand the growing transport capacity of core and access networks allows data transfer at unprecedented speed but new challenges arise from wireless access wireless sensor networks and the traversal of heterogeneous network domains The book focuses on all aspects related to the effective exploitation of remote instrumentation and to the building complex virtual laboratories on top of real devices and infrastructures These include SOA

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Table of Contents Answers For Virtual Astronomy Lab

1. Understanding the eBook Answers For Virtual Astronomy Lab
 - The Rise of Digital Reading Answers For Virtual Astronomy Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Virtual Astronomy Lab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Virtual Astronomy Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Virtual Astronomy Lab
 - Personalized Recommendations
 - Answers For Virtual Astronomy Lab User Reviews and Ratings
 - Answers For Virtual Astronomy Lab and Bestseller Lists
5. Accessing Answers For Virtual Astronomy Lab Free and Paid eBooks

- Answers For Virtual Astronomy Lab Public Domain eBooks
- Answers For Virtual Astronomy Lab eBook Subscription Services
- Answers For Virtual Astronomy Lab Budget-Friendly Options
- 6. Navigating Answers For Virtual Astronomy Lab eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Virtual Astronomy Lab Compatibility with Devices
 - Answers For Virtual Astronomy Lab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Virtual Astronomy Lab
 - Highlighting and Note-Taking Answers For Virtual Astronomy Lab
 - Interactive Elements Answers For Virtual Astronomy Lab
- 8. Staying Engaged with Answers For Virtual Astronomy Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Virtual Astronomy Lab
- 9. Balancing eBooks and Physical Books Answers For Virtual Astronomy Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Virtual Astronomy Lab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Virtual Astronomy Lab
 - Setting Reading Goals Answers For Virtual Astronomy Lab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Virtual Astronomy Lab
 - Fact-Checking eBook Content of Answers For Virtual Astronomy Lab
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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