

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

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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 of complex virtual laboratories on top of real devices and infrastructures. These include SOA and related middleware, high speed networking in support of Grid applications, wireless Grids for acquisition devices and sensor networks, Quality of Service (QoS) provisioning for real time control, measurement instrumentation and methodology as well as metrology issues in distributed systems.

The Solar System Michael A. Seeds, 2007 Helps students use astronomy to understand science and use science to understand what we are. Fascinating and engaging, this text illustrates the scientific method and guides students to answer these fundamental questions: What are we? And how do we know?

Organizations and Strategies in Astronomy Andre Heck, 2012-12-06 We have arrived at the third volume of this useful series on Organizations and Strategies in Astronomy (OSA). It contains seventeen articles on a wide range of topics from virtual observatories

astronomy organizations in various communities Czech Republic Slovak Republic South Africa and the role of ground stations in space observatories to quality assurance in UK higher education In this foreword I shall give some views on ideas expressed in this volume in particular from my personal experience when I was project officer for the Canada France Hawaii Telescope CFHT Let me first remind readers that present and future astronomy is increasingly dependent on high level management Not everybody knows that the scheduling of the Hubble Space Telescope is performed by a neural network software called SPIKE described in the stimulating workshop New Observing Modes for the Next Century partly reported in OSA Volume II by 1 Robson New observing facilities in space or on the ground are so complex that they need highly qualified engineers and rigorous management procedures Each observing hour on the Very Large Telescope VLT facility is worth about EUR 7 000 including the amortization of the capital expenses over 30 years This does not leave much room for amateurism neither in the time allocation procedures nor in the daily telescope control

[Learning Together Through Peer Instruction: A Comprehensive Guide for Astronomy Lecturers](#) Pasquale De Marco, 2025-04-16 In the ever evolving landscape of education peer instruction stands out as a transformative teaching method that actively engages students in the learning process fostering deeper understanding and critical thinking skills This comprehensive guide provides astronomy lecturers with a wealth of resources and strategies to implement peer instruction effectively in their courses Discover the power of peer instruction and its benefits for both students and instructors Learn how to get started with peer instruction and overcome common challenges Delve into the art of crafting thought provoking conceptual questions that spark discussion and promote deeper learning Explore effective strategies for implementing peer instruction activities in the classroom both in traditional and online environments This book also addresses the importance of using technology to enhance peer instruction from online platforms and interactive tools to digital assessment and feedback mechanisms It provides guidance on assessing student learning through effective assessments and constructive feedback to help students grow and improve To foster a supportive and collaborative learning environment the book explores strategies for building a community of learners fostering collaboration and cooperation among students and creating a positive classroom climate It also discusses how to adapt peer instruction for diverse learning environments including large classes online and hybrid courses and students with disabilities Finally the book delves into evaluating the impact of peer instruction exploring research methods and best practices for measuring its effectiveness It also discusses the future of peer instruction and how it can continue to evolve to meet the changing needs of astronomy education With its comprehensive approach and wealth of practical advice this book is an essential resource for astronomy lecturers seeking to create dynamic and engaging learning experiences for their students Embrace peer instruction and inspire your students to explore the wonders of the universe with a deeper understanding and a passion for lifelong learning If you like this book write a review on google books

Astronomy: The Human Quest for Understanding Dale A. Ostlie, 2022-09-07 Since humans first looked up at the stars astronomy has had a

particular ability to stir the imagination and challenge the thinking of scientists and non scientists alike Astronomy The Human Quest for Understanding is an introductory astronomy textbook specifically designed to relate to non science majors across a wide variety of disciplines nurture their curiosity and develop vital science based critical thinking skills This textbook provides an introduction to how science operates in practice and what makes it so successful in uncovering nature s secrets Given that the study of astronomy dates back thousands of years it is the ideal subject for tracing the development of the physical sciences and how our evolving understanding of nature has influenced and been influenced by mathematics philosophy religion geography politics and more This historical approach also illustrates how wrong turns have been taken and how the inherent self correcting nature of science through constant verification and the falsifiability of truly scientific theories ultimately leads us back to a more productive path in our quest for understanding This approach also points out why as a broadly educated citizenry students of all disciplines must understand how scientists arrive at conclusions and how science and technology have become central features of modern society In discussing this fascinating and beautiful universe of which we are a part it is necessary to illustrate the fundamental role that mathematics plays in decoding nature s mysteries Unlike other similar textbooks some basic mathematics is integrated naturally into the text together with interpretive language and supplemented with numerous examples additional tutorials are provided on the book s companion website Astronomy The Human Quest for Understanding leads the reader down the path to our present day understanding of our Solar System stars galaxies and the beginning and evolution of our universe along with profound questions still to be answered in this ancient yet rapidly changing field

Learning With Escape Rooms in Higher Education Online Environments Santamaría Urbieta, Alexandra,Alcalde Peñalver, Elena,2023-02-10 Teachers professors and educational professionals have the opportunity to create new challenging significant and interactive learning experiences for today s students Escape rooms are growing in popularity as they provide numerous benefits and opportunities for learning however the use of escape rooms in higher education is not always taken seriously Learning With Escape Rooms in Higher Education Online Environments proves that it is possible to take escape rooms to higher education with great results for both teachers and students by presenting different escape room proposals that are explained in detail with the instructions and materials used so that any teacher could replicate it in their subject Covering key topics such as online learning student learning and computer science this reference work is ideal for principals industry professionals researchers scholars practitioners academicians instructors and students

Computer Support for Collaborative Learning Gerry Stahl,2002 Proceedings of CSCL 2002 meeting in Boulder Colorado January 7 11 2002

Development and Management of Virtual Schools Catherine Cavanaugh,2004-01-01 Virtual schools are a result of widespread changes in knowledge about learning in available technology and in society Virtual schooling is growing in popularity and will continue to attract students because of the benefits it offers over traditional schooling Stakeholders in virtual schools need information to guide their decisions For the

foreseeable future virtual schools will continue to meet diverse student needs and to evolve in response to further change

Development and Management of Virtual Schools Issues and Trends brings together knowledge of virtual schools as a reference for scholars and other groups involved in virtual schools The chapters review best practice from concept and development through implementation and evaluation

The Data Bonanza Malcolm Atkinson, Rob Baxter, Peter Brezany, Oscar Corcho, Michelle Galea, Mark Parsons, David Snelling, Jano van Hemert, 2013-03-19 Complete guidance for mastering the tools and techniques of the digital revolution With the digital revolution opening up tremendous opportunities in many fields there is a growing need for skilled professionals who can develop data intensive systems and extract information and knowledge from them This book frames for the first time a new systematic approach for tackling the challenges of data intensive computing providing decision makers and technical experts alike with practical tools for dealing with our exploding data collections Emphasizing data intensive thinking and interdisciplinary collaboration The Data Bonanza Improving Knowledge Discovery in Science Engineering and Business examines the essential components of knowledge discovery surveys many of the current research efforts worldwide and points to new areas for innovation Complete with a wealth of examples and DISPEL based methods demonstrating how to gain more from data in real world systems the book Outlines the concepts and rationale for implementing data intensive computing in organizations Covers from the ground up problem solving strategies for data analysis in a data rich world Introduces techniques for data intensive engineering using the Data Intensive Systems Process Engineering Language DISPEL Features in depth case studies in customer relations environmental hazards seismology and more Showcases successful applications in areas ranging from astronomy and the humanities to transport engineering Includes sample program snippets throughout the text as well as additional materials on a companion website The Data Bonanza is a must have guide for information strategists data analysts and engineers in business research and government and for anyone wishing to be on the cutting edge of data mining machine learning databases distributed systems or large scale computing

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