

Hubble Redshift Lab Answers

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Hubble Redshift Lab Answers

Hubble Redshift Lab Report See the bottom of the answer sheet for some important values and relationships for this lab. Answer the questions below based on data you have collected and the graph and calculations you have done. 1. Which of the galaxies you looked at do you think is farthest away? Galaxy ID 51976 2.

Lab09 - Hubble Redshift Lab Report See the bottom of the ...

AST-103L Spring 2001: Hubble Redshift-Distance Relation Page 5

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of 9 ANSWER THE FOLLOWING QUESTIONS IN YOUR LAB NOTEBOOK. 3. Why do the spectra have different S/N ratios? Hint: look at the ones with similar exposure times. 4. Why is the recession velocity of a galaxy always less than the speed of light? 5.

AST-103L Spring 2001: Hubble Redshift-Distance Relation

The Hubble Redshift-Distance Relation Pre-Lab Name: ____ Paige Westfall ____ Date: __2/25/2018__ Section: __003__ Note: For this lab, refer to the instruction packet posted online. Your manual will not answer all of the following questions. 1) What did the Astronomer Edwin Hubble discover about galaxies in the 1920's?

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Clea Lab Answers Hubble Redshift - mallaneka.com

CLEA Lab Exercise – Hubble Redshift 1. Click on the purple Hubble Redshift shortcut button (on the desktop). 2. Click on File/Log In. Type in group members' names and table number. 3. Click on File/Run. The screen shows the control panel and view window as found in the “warm room” at the observatory.

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CLEA Lab Exercise Hubble Redshift

A Description of the Lab: Purpose: To illustrate how the velocities of galaxies are measured using a photon-counting spectrograph. To show how this information, along with estimates of galaxy distances (from their integrated apparent magnitudes) yields the classic Hubble redshift- distance relation.

PROJECT CLEA: THE HUBBLE REDSHIFT-DISTANCE RELATION

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Lab #15: Hubble's Law This lab is to be completed in groups of 2-3 and you should all participate actively. You should answer all

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of the questions on this sheet of paper and hand in just one copy per group with all your names on it. However, it is to your advantage if you all keep a record of your answers so you will have something to study from.

Lab #15: Hubble's Law

Physics 10263 Lab #9: Measuring the Hubble Constant

Introduction In the 1920's, Edwin Hubble discovered a relationship that is now known as Hubble's Law. It states that the recession velocity of a galaxy is proportional to its distance from us. The equation used to express this is: $v = H \cdot d$, where v = recession velocity of the galaxy (in km ...

Physics 10263 Lab #9: Measuring the Hubble Constant

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In this lab we will also use the fact that galaxies appear to be moving away from us to infer an age for the Universe, based on the amount of time it would take for galaxies to have moved to their current positions, at their current velocities. III. Gathering Data Open up the program titled "The Hubble Redshift Distance Relation" which can be found

The Hubble Redshift Distance Relation

Hubble's Law Review Questions: To make sure you understand the key concepts essential to this lab, answer the following questions based on your textbook reading assignment: What debate did Hubble put to rest with his discovery? . What is

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redshift (p124)? . How did Hubble use redshift to measure the speed of galaxies he observed? .

Hubble's Law Lab Activity - MyEssayDoc.com

Answer this in your lab book. 3.2 Redshift measurements In order to find the Hubble constant, the velocity of recession of a number of galaxies at varying distances will be required. Recession velocities are determined from galaxy redshifts - i.e., the amount by which the spectrum of any galaxy is Doppler shifted towards longer wavelengths due to

LAB C. The Hubble Redshift-Distance Relation

Pre-lab #11 Hubble's Law ... galaxy orbits within a cluster or explosive events in a galactic nucleus—the redshift resulting from the Hubble flow is called the cosmological redshift. ... perhaps the site of some explosion in the remote past? The answer is yes—but not in the way you might expect!

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Pre-lab #11 Hubble's Law - Middle Tennessee State University

INSIDE LAB 10: The Hubble Redshift-Distance Relation

OBJECTIVE: To become familiar with Hubble™'s law. DISCUSSION: In the early 20th century, astronomers discovered that the light from most galaxies is redshifted. If the redshift is caused by the Doppler effect, then almost all galaxies are moving away from us at significant speeds.

INSIDE LAB 10: The Hubble Redshift-Distance Relation

Keywords: redshift mechanism, tired light, static or expanding universe, creationist cosmology. Introduction. In standard cosmology it is normal practice to assume no Creator and that the material world is all that there is. Therefore it follows that only the laws of physics, time, and chance are to be considered when formulating a description of the creation and history of the

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universe we see.

Speculation on Redshift in a Created Universe | Answers in ...

Estimating Hubble's Constant INSTRUCTIONS Assume all of the sample galaxies in the image below are about the same size, so that those that appear smaller are farther away - bigger is closer. In this exercise your mouse pointer will be your redshift spectroscope. 1.

Hubble's Law | Activity Lab

To get an estimate of the size of the universe simply put Hubble's constant in the relationship: $\text{Size} = (\text{Speed of light}) / (\text{Hubble's Constant})$ Give your answer in Mpc. M.J.Coe June 2009 The above Hubble Lab was adapted from the WWW pages of the Lick Observatory, University of California, Santa Cruz, USA.

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Hubble Constant Lab - University of Southampton

Physics 10263 Lab #10: Measuring the Hubble Constant

Introduction In the 1920's, Edwin Hubble discovered a relationship that is now known as Hubble's Law. It states that the recession velocity of a galaxy is proportional to its distance from us. The equation used to express this is: $v = H \cdot d$, where v = recession velocity of the galaxy (in km ...

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