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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. To determine the value of the Hubble parameter and the expansion age of the universe.

PROJECT CLEA: THE HUBBLE REDSHIFT-DISTANCE RELATION

Clea Lab Answers Hubble Redshift 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/sec) H = Hubble constant (in km/sec/Mpc) d Physics 10263 Lab #9: Measuring the ...

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Clea Lab Answers Hubble Redshift - h2opalermo.it The software for the CLEA Hubble Redshift Distance Relation laboratory exercise puts you in control of a large optical telescope equipped with a TV camera and an electronic spectrometer. Using this equipment, you will determine the distance and velocity of several galaxies located in selected clusters around the sky. Page 5/11. Acces PDF Clea ...

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The redshift is the ratio of the change in the wavelength of a spectral line divided by its wavelength measured in the lab, and this is equal to the speed of the object (star or galaxy) divided by the speed of light. Since nothing can travel faster than the speed of light, one would not expect the redshift to be greater than 1.

CLEA - The Hubble Redshift Distance Relation

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PHYS133 Lab 9 The Hubble Law UDel Physics 3 of 8 Fall 2018 Procedure PART I: The Hubble Redshift Distance Relation Using the Hubble Redshift Program Open the CLEA lab titled "VIREO" by double clicking on the Icon labeled VIREO. 1. Click on File ?> Login. Enter the names of each group member and click OK and then YES.

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The latest version of CLEA Exercise - The Hubble Redshift-Distance Relation can be installed on PCs running Windows XP/Vista/7/8/10, 32-bit. The most popular version among CLEA Exercise - The Hubble Redshift-Distance Relation users is 1.0. This free program is a product of Project CLEA - Gettysburg College.

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for your Hubble constant, H_0 by making a graph. III. Procedures You will be recording your data (measurements, calculations, and graph) and your answers to the questions on the "Hubble's Law Lab Data Sheets." You will need to type your answers and copy/paste your graph into the document, save it, and then upload it to eCampus. You may want to review the definitions of "major axis ...

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Hubble, with the help of Humason, painstakingly measured the distances of the nearest galaxies, and by 1928, was able to state that the radial velocity determined from the redshift in the spectrum of a galaxy was directly proportional to the distance to that galaxy (except for those in the Local Group). This can be written as $V_r = H_0 d$ Where the radial velocity, V_r is measured in km/sec, H_0 is the ...

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