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The Cosmic Distance Ladder – Student Guide

Exercises

The Cosmic Distance Ladder Module consists of material on seven different distance determination techniques. Four of the techniques have external simulators in addition to the background pages. You are encouraged to work through the material for each technique before moving on to the next technique.

Radar Ranging

Question 1: Over the last 10 years, a large number of iceballs have been found in the outer solar system out beyond Pluto. These objects are collectively known as the Kuiper Belt. An amateur astronomer suggests using the radar ranging technique to learn the rotation periods of Kuiper Belt Objects. Do you think that this plan would be successful? Explain why or why not?

NO, because it would be too far away for the radio wave. It would be thinned out and become off on many objects.

Parallax

In addition to astronomical applications, parallax is used for measuring distances in many other disciplines such as surveying. Open the **Parallax Explorer** where techniques very similar to those used by surveyors are applied to the problem of finding the distance to a boat out in the middle of a large lake by finding its position on a small scale drawing of the real world. The simulator consists of a map providing a scaled overhead view of the lake and a road along the bottom edge where our surveyor represented by a red X may be located. The surveyor is equipped with a theodolite (a combination of a small telescope and a large protractor so that the angle of the telescope orientation can be precisely measured) mounted on a tripod that can be moved along the road to establish a baseline. An **Observer's View** panel shows the appearance of the boat relative to trees on the far shore through the theodolite.

Configure the simulator to **preset A** which allows us to see the location of the boat on the map. (This is a helpful simplification to help us get started with this technique – normally the main goal of the process is to learn the position of the boat on the scaled map.) Drag the position of the surveyor around and note how the apparent position of the boat relative to background objects changes. Position the surveyor to the far left of the road and click **take measurement** which causes the surveyor to sight the boat through the theodolite and measure the angle between the line of sight to the boat and the road. Now position the surveyor to the far right of the road and click **take measurement** again. The distance between these two positions defines the baseline of our observations and the intersection of the two red lines of sight indicates the position of the boat.

38°
81°
61°

Cosmic Distance Ladder Student Guide Answer

Liying Dong



Cosmic Distance Ladder Student Guide Answer:

The Reader's Adviser ,1986 **Bulletin of the Atomic Scientists** ,1953-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **American Book Publishing Record** ,1985 *Fundamentals of Astronomy* Flavio Salvati,2020-09-22 This book covers the fundamentals of astronomy such as coordinate systems transformation of coordinates measurement of time telescopes the black body flux and magnitude the cosmic distance ladder celestial mechanics and Kepler s laws the motion of planets and transfer orbits Each chapter contains many exercises and problems to help the readers familiarise themselves with the contents Part of the questions were selected from more than 10 different National Astronomy Olympiads the International Olympiad on Astronomy and Astrophysics IOAA and the International Astronomy Olympiad IAO At the end of the book there are detailed solutions to all the exercises and problems The only prerequisite is a basic knowledge of high school mathematics and physics Slightly more advanced mathematical tools are covered in the appendix making the book self contained This book is specifically aimed at students preparing for the regional and national phases of the Astronomy Olympiads but will also represent a valuable resource for those selected to represent their countries at international competitions For more information visit the website www.astrolympiad.com **Student Study Guide to Accompany Astronomy** Michel Breger,1975 *Student Self-study Guide, an Introduction to Astronomy, 8th Edition* Rebecca M. Berg,1974

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