

An object's orbit depends on the "mass inside" its orbit (also known as the *interior mass*). For a planet in our Solar System, you can find the interior mass by adding the Sun's mass to the mass of each object between the Sun and the planet's orbit. For example, the interior mass to Earth's orbit would be the Sun's mass plus the mass of Mercury plus the mass of Venus.

Here is a table that lists each planet, the mass inside each planet's orbit, and the speed at which the planets orbit the Sun.

Planet	Interior Mass (solar masses)	Orbital Speed (km/s)
Mercury	1.00	47.9
Venus	1.0000027	35.0
Earth	1.0000057	29.8
Mars	1.0000060	24.1
Jupiter	1.00096	13.1
Saturn	1.0012	9.66
Uranus	1.0013	6.81
Neptune	1.0013	5.43

1) Where is the vast majority of mass in the solar system located? What object or objects account for most of this mass?

2) Two students are discussing their answers to Question 1:

Student 1: *I think the majority of the mass in the solar system must include both the Sun and the planets. As you get farther away from the Sun, the interior mass gets bigger and bigger because you include more planets.*

Student 2: *I disagree. The majority of the mass in the solar system is from just the Sun by itself. Sure the mass gets a little bigger as you include more planets, but the additional mass from planets is really small.*

Do you agree or disagree with either or both of the students? Explain your reasoning.

3) How do the orbital speeds of planets farther from the Sun compare to the orbital speeds of planets closer to the Sun?

Dark Matter Lecture Tutorial Answers

SA Adler



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Astronomy Media Workbook Michael C. LoPresto, Jeffrey O. Bennett, 2007 This revised and expanded popular media workbook is provided with all new copies of Bennetts' book and includes a wide selection of in depth activities using resources from The Astronomy Place and Voyager SkyGazer College Edition v3.6 planetarium software These thought provoking projects are suitable for the lab or as assignable homework assignments

The Essential Cosmic Perspective Jeffrey O. Bennett, 2003 Have there been developments in astronomy that have led you to teach some topics differently from how you learned them as a student Are your students overwhelmed with the amount of information they need to learn in their astronomy class Then consider the fresh approach of The Essential Cosmic Perspective Second Edition Built from the ground up on our new understanding of the universe this student friendly text focuses on central ideas and unifying themes to provide a concise cosmic context Scientific concepts are linked to everyday experience to help students develop an appreciation for the scientific method and to see how physics and astronomy are foundations for understanding their world and recent discoveries spark students curiosity in the universe as a whole

Small Group Teaching Richard G. Tiberius, 2013-10-11 A practical guide to improve classes that are bored hostile aggressive or just not quite right The book provides tips form making small class teaching more effective with practical suggestions for a broad range of problems that teachers regularly encounter

Way Cool Web Sites Richard Raucci, Elizabeth Crane, Jerry Yang, 1996

Physics Briefs, 1989

Oxford, 2006

Paperbound Books in Print 1995 Reed Reference Publishing, Reference Reed, 1995-12

Proceedings, 1965

Dark Matter In The Universe (Second Edition) - 4th Jerusalem Winter School For Theoretical Physics Lectures John N Bahcall, Tsvi Piran, Steven Weinberg, 2004-09-03 If standard gravitational theory is correct then most of the matter in the universe is in an unidentified form which does not emit enough light to have been detected by current instrumentation This book is the second edition of the lectures given at the 4th Jerusalem Winter School for Theoretical Physics with new material added The lectures are devoted to the missing matter problem in the universe the search to understand dark matter The goal of this volume is to make current research work on unseen matter accessible to students without prior experience in this area and to provide insights for experts in related research fields Due to the pedagogical nature of the original lectures and the intense discussions between the lecturers and the students the written lectures included in this volume often contain techniques and explanations not found in more formal journal publications

The Invisible Universe: Dark Matter and Dark Energy Eleftherios Papantonopoulos, 2007-08-01 The nature and essence of Dark Matter and Dark Energy have become the central issue in modern cosmology over the past years This extensive volume an outgrowth of a topical and tutorial summer school has been set up with the aim of constituting an advanced level multi authored textbook which meets the needs of both postgraduate students and young researchers in the fields of modern cosmology and astrophysics

Black Marbles and Bright Energy Thomas Moore, 2018-03-29 The science of cosmology

why our universe is what it is abounds with unanswered questions What is Dark Matter What is Dark Energy What is the structure of a Black Hole Why is the rate of expansion of the universe increasing This book provides answers to these questions and many others by proposing an original approach called Black Marble Theory It is a simple elegant and non mathematical idea that can be easily understood by a non technical reader The fundamental proposition is simply that matter can exist in a different state than the ordinary matter that we can see in the universe It is called Black Matter It is produced when all of the space is compressed out of Ordinary Matter by extreme gravity If there is enough Ordinary Matter to start with the Black Matter will form a solid sphere called a Black Marble Black Marbles form the center of Black Holes From this basic idea the theory follows logical steps that provide clear and plausible explanations of the most profound mysteries that confront Physics today It explains the structure of the Black Hole the formation of galaxies and the Big Bang itself The theory also provides a surprisingly simple explanation of the source and fuel of the Dark Energy that propels the expansion of the universe In an hour of easy reading it will become clear Why our universe is just what it appears to be **The British**

National Bibliography Arthur James Wells,1995 *Dark Matter in the Universe* John N. Bahcall,Tsvi Piran,Steven Weinberg,2004 If standard gravitational theory is correct then most of the matter in the universe is in an unidentified form which does not emit enough light to have been detected by current instrumentation This book is the second edition of the lectures given at the 4th Jerusalem Winter School for Theoretical Physics with new material added The lectures are devoted to the missing matter problem in the universe this search to understand dark matter The goal of this volume is to make current research work on unseen matter accessible to students without prior experience in this area and to provide insights for experts in related research fields Due to the pedagogical nature of the original lectures and the intense discussions between the lecturers and the students the written lectures included in this volume often contain techniques and explanations not found in more formal journal publications **Calculating Dark Energy and Dark Matter - Lecture 5** D.C.

Adams,2014-05-08 Run away galaxies caused by Dark Energy clusters of celestial objects held together by Dark Matter and the force of gravity persists as an unsolved mystery riddling the best minds mankind has ever known Concealed from our eyes in a cloak of darkness the effects of these irrefutable cosmological anomalies prevail unsolved and undefeated With the introduction of a new theory Dimensional Field Theory as described in The New Standard Model by D C Adams we apply a practical mathematical application for solving this pivotal quest Calculations for Dark Energy and Dark Matter introduces a brief practical mathematical application and representation of the theory while revealing the interpretations and concepts as a basic introduction simultaneously designed to successfully explain these baffling mysteries **Dark Matter is**

Nonexistent Eugene J. Laviolette,2019-07-10 Dark Matter is Nonexistent by Eugene J Laviolette theorizes based on mathematical calculation that dark matter does not exist This explosive scientific theory just may change what we know about the Universe forever Proving conversion of Conventional Second Dimensional calculations to Third dimensional

expression relevant to the sphere reflects a loss of 23 36985% of Surface Area on the Second Dimensional plane This % is equal to the inferred % of missing matter called DARK MATTER

Dark Matter David J. E. Marsh, David Ellis, Viraf M. Mehta, 2024-10-15 A complete treatment of all aspects of dark matter physics This book provides an incisive self contained introduction to one of the most intriguing subjects in modern physics presenting the evidence we have from astrophysics for the existence of dark matter the theories for what it could be and the cutting edge experimental and observational methods for testing them It begins with a survey of the astrophysical phenomena from rotation curves to lensing and cosmological structure formation It goes on to offer the most comprehensive overview available of all three major theories discussing weakly interacting massive particles WIMPs axions and primordial black holes The book explains the constraints on each theory such as direct detection and indirect astrophysical limits and enables students to build physical intuition using hands on exercises and supplemental material The only book to treat extensively WIMPs axions and primordial black holes Provides balanced coverage of the evidence theory and testing for dark matter from astrophysics particle physics and experimental physics Includes original problems and short quizzes throughout Accompanied by Jupyter notebooks that give sample calculations and methods to reproduce key results and graphs An ideal textbook for advanced undergraduate and graduate students and an essential reference for researchers

Dark Sky, Dark Matter J.M Overduin, P.S Wesson, 2002-09-01 Olbers paradox states that given the Universe is unbounded governed by the standard laws of physics and populated by light sources the night sky should be ablaze with light Obviously this is not so However the paradox does not lie in nature but in our understanding of physics A Universe with a finite age such as follows from big bang theor

Dark Matter and Dark Energy Sabino Matarrese, Monica Colpi, Vittorio Gorini, Ugo Moschella, 2011-02-10 This book brings together reviews from leading international authorities on the developments in the study of dark matter and dark energy as seen from both their cosmological and particle physics side Studying the physical and astrophysical properties of the dark components of our Universe is a crucial step towards the ultimate goal of unveiling their nature The work developed from a doctoral school sponsored by the Italian Society of General Relativity and Gravitation The book starts with a concise introduction to the standard cosmological model as well as with a presentation of the theory of linear perturbations around a homogeneous and isotropic background It covers the particle physics and cosmological aspects of dark matter and dynamical dark energy including a discussion of how modified theories of gravity could provide a possible candidate for dark energy A detailed presentation is also given of the possible ways of testing the theory in terms of cosmic microwave background galaxy redshift surveys and weak gravitational lensing observations Included is a chapter reviewing extensively the direct and indirect methods of detection of the hypothetical dark matter particles Also included is a self contained introduction to the techniques and most important results of numerical e g N body simulations in cosmology This volume will be useful to researchers PhD and graduate students in Astrophysics Cosmology Physics and Mathematics who are interested in cosmology dark matter and

dark energy *The Search for WIMP Dark Matter Around Our Galaxy - Lecture 1 of 2*, 2006 **Yet Another Introduction to Dark Matter** Martin Bauer, Tilman Plehn, 2019-06-11 Dark matter is a frequently discussed topic in contemporary particle physics. Written strictly in the language of particle physics and quantum field theory, these course-based lecture notes focus on a set of standard calculations that students need in order to understand weakly interacting dark matter candidates. After introducing some general features of these dark matter agents and their main competitors, the Higgs portal scalar and supersymmetric neutralinos are introduced as our default models. In turn, this serves as a basis for exploring four experimental aspects: the dark matter relic density extracted from the cosmic microwave background, indirect detection including the Fermi galactic center excess, direct detection, and collider searches. Alternative approaches like an effective theory of dark matter and simplified models naturally follow from the discussions of these four experimental directions.

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