

# The cosmological Constant Problem

## The contribution of quantum fluctuations

$$T_{\mu\nu}^{\text{vac}} = \rho_{\text{vac}} g_{\mu\nu}, \quad \rho_{\text{vac}} = \hbar k_{\text{max}}$$

$k_{\text{max}}$  stands for the ultraviolet momentum cutoff

$$\rho_{\text{vac}}^{\text{EW}} \sim 2 \cdot 10^{-4} \text{ g cm}^{-3}, \quad \rho_{\text{vac}}^{\text{QCD}} \sim 1.6 \cdot 10^{15} \text{ g cm}^{-3}, \quad \rho_{\text{vac}}^{\text{Pl}} \sim 2 \cdot 10^{89} \text{ g cm}^{-3}$$

$$\rho_{\Lambda} = \frac{\Lambda}{8\pi G} \sim h^2 \cdot 10^{-29} \text{ g cm}^{-3}$$

A similar problem happens when one assumes  $\Lambda_{\text{vac}} = 8\pi G \rho_{\text{vac}}$

- Solar neighborhood  $r_0^{\text{EW}} \sim 2 \cdot 10^{-2} h^{-2/3} \text{ a.u.}$ ,  $r_0^{\text{Pl}} \sim 3 \cdot 10^{-11} h^{-2/3} \text{ \AA}$
- Primordial epoch ( Vacuum domination )

## Another version of the Cosmological Constant Problem

It consists on arguing on the smallness of  $\Lambda = \Lambda_{\text{vac}} + \Lambda_0$

# Gravitation And Modern Cosmology The Cosmological Constant Problem

**L Towne**



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## **Table of Contents Gravitation And Modern Cosmology The Cosmological Constant Problem**

1. Understanding the eBook Gravitation And Modern Cosmology The Cosmological Constant Problem
  - The Rise of Digital Reading Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Advantages of eBooks Over Traditional Books
2. Identifying Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gravitation And Modern Cosmology The Cosmological Constant Problem
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Personalized Recommendations
  - Gravitation And Modern Cosmology The Cosmological Constant Problem User Reviews and Ratings
  - Gravitation And Modern Cosmology The Cosmological Constant Problem and Bestseller Lists
5. Accessing Gravitation And Modern Cosmology The Cosmological Constant Problem Free and Paid eBooks
  - Gravitation And Modern Cosmology The Cosmological Constant Problem Public Domain eBooks
  - Gravitation And Modern Cosmology The Cosmological Constant Problem eBook Subscription Services
  - Gravitation And Modern Cosmology The Cosmological Constant Problem Budget-Friendly Options

6. Navigating Gravitation And Modern Cosmology The Cosmological Constant Problem eBook Formats
  - ePub, PDF, MOBI, and More
  - Gravitation And Modern Cosmology The Cosmological Constant Problem Compatibility with Devices
  - Gravitation And Modern Cosmology The Cosmological Constant Problem Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Highlighting and Note-Taking Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Interactive Elements Gravitation And Modern Cosmology The Cosmological Constant Problem
8. Staying Engaged with Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gravitation And Modern Cosmology The Cosmological Constant Problem
9. Balancing eBooks and Physical Books Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gravitation And Modern Cosmology The Cosmological Constant Problem
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Setting Reading Goals Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Fact-Checking eBook Content of Gravitation And Modern Cosmology The Cosmological Constant Problem
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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