Phys 436: Introduction to Cosmology

Physics & Astronomy

This is an introductory course in modern cosmology, covering the observational evidence for the current standard model of cosmology and its modeling in terms of the theory of gravity and spacetime. Topics covered include the current status of observational cosmology, homogeneous and isotropic spacetime models and their evolution starting from the Big Bang, the cosmic microwave background, dark matter and dark energy, and structure formation in the universe.

3 Credits

Prerequisites

- Math 262: Unified Calculus & Analytic Geometry II
- Phys 317: Introduction to Modern Physics I
- Pre-Requisite: 24 Earned Hours

Cross-listed Courses

- Astr 436: Introduction to Cosmology

Instruction Type(s)

- Lecture: Lecture for Phys 436

Subject Areas

- Theoretical and Mathematical Physics

Related Areas

- Acoustics
- Atomic/Molecular Physics
- Condensed Matter and Materials Physics
- Elementary Particle Physics
- Nuclear Physics
- Optics/Optical Sciences
- Physics, General
- Physics, Other

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