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Fusion of nuclei likewise explains the energy of stars. Today, the patterns in particle physics seem to be explaining the evolution and character of the universe. And the nature of the universe has implications for unexplored regions of particle physics. Cosmology is the study of the character and evolution of the universe. What are the major characteristics of the universe as we know them today?

34.1 Cosmology and Particle Physics - College Physics ...

2003 Theoretical Advanced Study Institutes in elementary particle physics (TASI) at the University of Colorado at Boulder. They are intended to provide a pedagogical introduction to cosmology aimed at advanced graduate students in particle physics and string theory. SU-GP-04/1-1 1

TASI Lectures: Introduction to Cosmology

Elementary particle physics is the study of fundamental particles and their interactions in nature. Those who study elementary particle physics—the particle physicists—differ from other physicists in the scale of the systems that they study.

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Tanmay Vachaspati is a theoretical physicist working at the intersection of particle physics, astrophysics, general relativity, and cosmology. He has written extensively on topological defects with an emphasis on cosmic strings, and on the generation, evolution, and observation of primordial magnetic fields.