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U.S. Kavli Frontiers of Science

19th Annual Kavli Frontiers of Science Symposium

U.S. National Academy of Sciences
Arnold and Mabel Beckman Center
November 8-10, 2007
Irvine, CA

Unraveling the Accelerating Universe

-Presentation 

Rachel Bean, Cornell University

Please click on the above link to watch the presentation - both slides and audio. This presentation file is in [Adobe Flash player](#) format, available free online.

The last decade has seen dramatic improvements in our understanding of the universe, with cosmological observations allowing us to test Einstein's theory of gravity, General Relativity, which relates the matter content of the universe to how the universe's size evolves. Recent observations have shown that the universe's current behavior is extremely puzzling, rather than its expansion slowing as Einstein's theory predicts, it appears to be speeding up. We introduce the cosmological model that observations are investigating, and discuss how recent observations have presented fundamental challenges to our understanding of gravity and particle physics.

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