

**Cosmic Lenses:
Bending Light with Gravity**

A Lecture by Denise Schmitz

Friday, November 17th, 7:00PM

Cahill Center for Astronomy and Astrophysics
California Institute of Technology

One important consequence of Einstein's theory of relativity is that massive objects can bend light, an effect known as "gravitational lensing." Over the years, astronomers have learned to take advantage of this intriguing phenomenon to learn about everything from black holes to dark matter to galaxy clusters. In this lecture, I'll demystify the science behind gravitational lensing and take you on a tour of the amazing breakthroughs it has enabled.

These are free lectures at a public level followed by guided stargazing with telescopes (weather permitting). All events are held at the Cahill Center for Astronomy and Astrophysics at Caltech. No reservations are needed.

Lectures are 30 minutes, stargazing lasts 90 minutes. Stay only as long as you want.

For directions, parking, weather updates, and more information, please visit:

<http://outreach.astro.caltech.edu>