

# Workshop Schedule

Events for:  
**Monday, August 5th - Friday, August 9th**

## Monday, August 5th

10:00am **Prateek Agrawal**

**Title:** Scalar fields in cosmology and Swampland conjectures

11:00am **Break**

11:30am **Prateek Agrawal Continuation**

**Title:** Scalar fields in cosmology and Swampland conjectures

12:00pm **Lunch**

5:00pm **Della Pietra Public Lecture by Adam Riess**

**Title:** Supernovae and the Discovery of the Accelerating Universe

**Abstract:** In 1929 Edwin Hubble discovered that our Universe is expanding. Eighty years later, the Space Telescope which bears his name is being used to study an even more surprising phenomenon, that the expansion is speeding up. The origin of this effect is not known, but is broadly attributed to a type of “dark energy” first posited to exist by Albert Einstein and now dominating the mass-energy budget of the Universe. I will describe how our team discovered the acceleration of the Universe and why understanding the nature of dark energy presents one of the greatest remaining challenges in astrophysics and cosmology. I will also discuss new evidence that the Universe may be even more interesting than recently believed.

## Tuesday, August 6th

10:00am **Marilena Loverde**

**Title:** Cosmology from Basic Physics

11:00am **Break**

11:30am **Marilena Loverde Continuation**

**Title:** Cosmology from Basic Physics

12:00pm **Lunch**

2:00pm **Della Pietra Lecture Series Technical Talk by Adam Riess**

**Title:** The Expansion of the Universe, Faster Than We Thought

**Wednesday, August 7th**

10:00am **David Spergel**

**Title:** Understanding CMB Fluctuations

11:00am **Break**

11:30am **David Spergel Continuation**

**Title:** Understanding CMB Fluctuations

12:30pm **Lunch**

**Thursday, August 8th**

10:00am **Claire Zukowski**

**Title:** The orbit method and de Sitter space from entanglement

11:00am **Break**

11:30am **Claire Zukowski Continuation**

**Title:** The orbit method and de Sitter space from entanglement

12:00pm **Lunch**

**Friday, August 9th**

10:00am **Rachel Rosen**

**Title:** Quantum Instabilities in de Sitter: A Discussion

11:00am **Break**

11:30am **Rachel Rosen Continuation**

**Title:** Quantum Instabilities in de Sitter: A Discussion

12:00pm **Lunch**