

# Workshop Schedule

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

### Monday, August 5th

10:00am **Prateek Agrawal - SCGP 102**

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

11:00am **Break - SCGP Cafe**

11:30am **Prateek Agrawal Continuation - SCGP 102**

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

12:00pm **Lunch - SCGP Cafe**

5:00pm **Della Pietra Public Lecture by Adam Riess - 103**

**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 - SCGP 102**

**Title:** Cosmology from Basic Physics

11:00am **Break - SCGP Cafe**

11:30am **Marilena Loverde Continuation - SCGP 102**

**Title:** Cosmology from Basic Physics

12:00pm **Lunch - SCGP Cafe**

2:00pm **Della Pietra Lecture Series Technical Talk by Adam Riess - SCGP 102**

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

**Wednesday, August 7th**

10:00am **David Spergel - SCGP 102**

**Title:** Understanding CMB Fluctuations

11:00am **Break - SCGP Cafe**

11:30am **David Spergel Continuation - SCGP 102**

**Title:** Understanding CMB Fluctuations

12:30pm **Lunch - SCGP Cafe**

**Thursday, August 8th**

10:00am **Claire Zukowski - SCGP 102**

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

11:00am **Break - SCGP Cafe**

11:30am **Claire Zukowski Continuation - SCGP 102**

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

12:00pm **Lunch - SCGP Cafe**

**Friday, August 9th**

10:00am **Rachel Rosen - SCGP 102**

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

11:00am **Break - SCGP Cafe**

11:30am **Rachel Rosen Continuation - SCGP 102**

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

12:00pm **Lunch - SCGP Cafe**