# Workshop Schedule

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00am</td>
<td>Prateek Agrawal - SCGP 102</td>
<td>SCGP 102</td>
<td>Scalar fields in cosmology and Swampland conjectures</td>
</tr>
<tr>
<td>11:00am</td>
<td>Break - SCGP Cafe</td>
<td>SCGP Cafe</td>
<td></td>
</tr>
<tr>
<td>11:30am</td>
<td>Prateek Agrawal Continuation - SCGP 102</td>
<td>SCGP 102</td>
<td>Scalar fields in cosmology and Swampland conjectures</td>
</tr>
<tr>
<td>12:00pm</td>
<td>Lunch - SCGP Cafe</td>
<td>SCGP Cafe</td>
<td></td>
</tr>
<tr>
<td>5:00pm</td>
<td>Della Pietra Public Lecture by Adam Riess - 103</td>
<td>103</td>
<td>Supernovae and the Discovery of the Accelerating Universe</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00am</td>
<td>Marilena Loverde - SCGP 102</td>
<td>SCGP 102</td>
<td>Cosmology from Basic Physics</td>
</tr>
<tr>
<td>11:00am</td>
<td>Break - SCGP Cafe</td>
<td>SCGP Cafe</td>
<td></td>
</tr>
<tr>
<td>11:30am</td>
<td>Marilena Loverde Continuation - SCGP 102</td>
<td>SCGP 102</td>
<td>Cosmology from Basic Physics</td>
</tr>
</tbody>
</table>
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