

Welcome to the 44th SLAC SUMMER INSTITUTE!







Hopefully everything you need to know is on the SSI webpage.. but let's go through a few things.....

SSI 2016

SLAC NATIONAL ACCELERATOR LABORATORY

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Welcome to the 44th SLAC Summer Institute

New Horizons on the Energy Frontier

August 15-26, 2016 SLAC National Accelerator Laboratory Menlo Park, California

SLAC Summer Institution Program

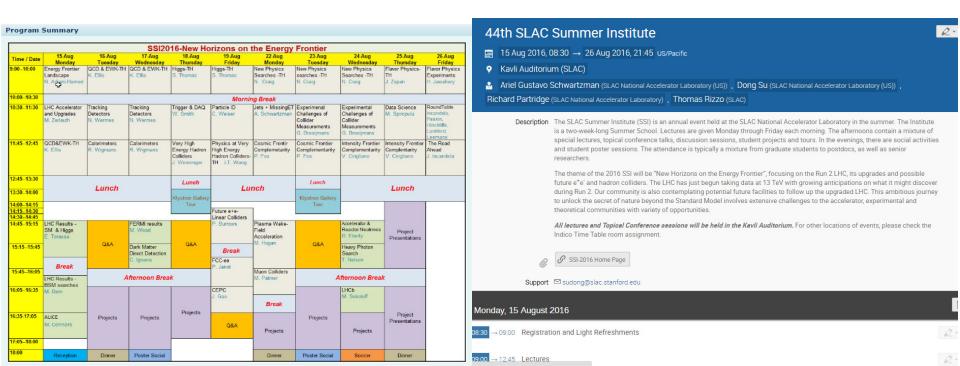
The SLAC Summer Institute (SSI) is an annual two-week-long Summer School tradition since 1973. Lectures are given Monday through Friday each morning. The afternoons contain a mixture of special lectures, topical conference talks, discussion sessions, student projects and tours. In the evenings, there are social activities and student poster sessions. The attendance is typically a mixture from graduate students to postdocs, as well as senior researchers.

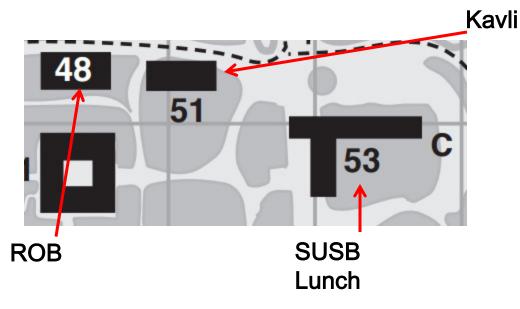
The theme of the 2016 SSI will be "New Horizons on the Energy Frontier", focusing on the Run 2 LHC, its upgrades and possible future e⁺e⁻ and hadron colliders. The LHC has just begun taking data at 13 TeV with growing anticipations on what it might discover during Run 2. Our community is also contemplating potential future facilities to follow up the upgraded LHC. This ambitious journey to unlock the secret of nature beyond the Standard Model involves extensive challenges to the accelerator, experimental and theoretical communities with variety of opportunities.



The schedule is available in 2 forms: as a spreadsheet & in full detail on Indico

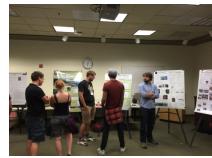
- The morning lectures & the afternoon talks will all be here in the Kavli Auditorium
- The afternoon Q&A and (initial & final) project sessions will also be held here in the Kavli Auditorium
- The reception & dinners will be held on the patio of the SUSB cafeteria





 The poster session will be held in the SUSB (on 8/17!)





The Contest Question: Every year we ask the students to answer a broad-based 'light' question depending on the SSI subject. This year the question is:

"What discovery made during the next 5 years would do the most to advance the field of high energy physics and why?"

Place your answers in the big box (by 5PM 8/25) & a winner will be chosen during the last nights dinner (after wine).. the winner gets a bottle of fine CA bubbly signed by Nobel Prize winner Burton Richter on the last day.

To get the flavor: https://indico.cern.ch/event/200595/attachments/299542/418603/SSIContest2012.pdf

Q&A Sessions



- These are intended for extensive questions so those during the lectures & immediately afterward should be kept short & to the point.. of course, other questions can also be addressed to the speakers directly during breaks
- Note that questions can also be submitted (anonymously) with GoogleDocs via a link on the webpage & will be addressed in the Q&A sessions

Projects:





- Since 2013 we have incorporated projects conducted by teams of students into SSI
- We will provide a list of projects (to be posted later today or early tomorrow on the SSI website -- so keep your eyes open!) & you pick what looks interesting to you.. again, sign up using GoogleDocs on the SSI website
- Teams form around a given project & try to address the issues
- Teams present their results on the final TH afternoon (8/25) & the best team wins prizes
- More details tomorrow afternoon @ ~4PM

Odds & Ends

- Sign up for tours at the registration desk (see schedule for times)
- Be aware of next week's soccer game between the SSI students
 & the SLAC team...sign up to play or watch
- Check the SSI "SLAC campus" page for info wrt printing, ATMs, after hours access, etc.





Group photo after the first lecture ↓

