# News and Events

**Lab Research Shines Bright in Large Hadron Collider Upgrade**
A groundbreaking ceremony took place in Geneva, Switzerland today to celebrate the start of civil engineering work for the **High-Luminosity Large Hadron Collider (HL-LHC)** at CERN. When complete, the HL-LHC will produce five to seven times more proton-proton collisions than the currently operating LHC. Researchers from the Lab’s Accelerator Technology and Applied Physics, Engineering, and Physics divisions are contributing to the work. More>

**Carl Haber’s Project IRENE Helps Cal Student Rediscover Native American Heritage**
Project IRENE, an audio digitization method invented by Lab physicist Carl Haber, made it possible for anthropologists to turn fragile wax cylinder recordings of Native American languages into digital sound archives — and for a UC Berkeley student to reconnect with his family and Native American culture. More>

**What Rhymes With Cyclotron? Poets Explore the 88-Inch**
Kate Greene — a former Lab science writer who is a poet, essayist, journalist, and former laser physicist — and Anastasios Karnazes, also a poet, spent the afternoon and evening at the Lab’s 88-Inch Cyclotron on Thursday to write poetry inspired by their overnight visit. Watch a slideshow of their visit here, and look for an upcoming feature article in TABL for some details from their visit.

**Photo Feature: Visions of DESI at Kitt Peak**
Lab photographer Marilyn Chung recently visited Kitt Peak and the Mayall Telescope in Arizona, where the Dark Energy Spectroscopic Instrument (DESI) will be installed. DESI will create the largest 3D map of the universe to help explain dark energy. See some of the images Chung captured during her visit in this photo feature.

**Q&A: Lab Physics Researcher Discusses New Higgs Boson Result**
Jennet Dickinson (center), a graduate student researcher at Berkeley Lab and UC Berkeley, explains her role in a new particle physics result, announced today, that relates to the Higgs boson and its interaction with another particle, the top quark. More>

**Status of DESI Project Discussed at Collaboration Meeting in Arizona**
Dark Energy Spectroscopic Instrument (DESI) researchers are gathered in Arizona to discuss the status of the project, which will capture light from millions of galaxies and take precise measurements of the universe's expansion rate. Berkeley Lab is a DESI collaborator. Research will be conducted at the Mayall 4-meter telescope at Kitt Peak Observatory in Tucson, AZ (pictured).

**Planck Collaboration Wins 2018 Gruber Cosmology Prize**
The Planck Team — which includes researchers in the Lab’s Computational Research and Physics divisions — has been awarded the 2018 Gruber Cosmology Prize. The prize honors “groundbreaking work in the fields of cosmology, genetics, and neuroscience that inspires and enables fundamental shifts in knowledge and culture.” More>

**Visiting Photographers to Participate in Lab Photowalk Event on May 16**
About 30 photographers are scheduled to visit various Lab sites — including the ALS, Molecular Foundry, NERSC, and Building 62 battery labs — on May 16 as part of a Global Physics Photowalk competition. The Lab also is hosting a separate photo competition for employees, contractors, affiliates, and those who conduct research at the Lab.