



San Mateo County Astronomical Society



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SMCAS General Meeting and Presentation on Friday February 2, 2018

[Kelly Stifter](#)

PhD Student

SLAC National Accelerator Laboratory, Stanford University

Direct Detection of Dark Matter

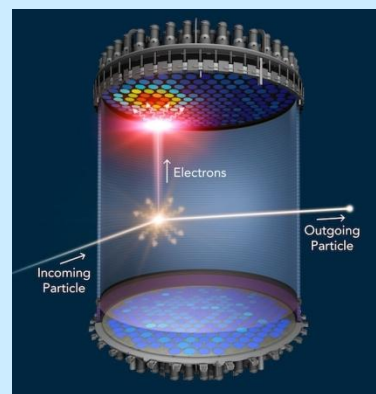
Friday, February 2, 2018, [College of San Mateo, Building 36](#)

SMCAS General meeting at 7:00 p.m. ISC Room, room 110

Presentation at 8:00 p.m. [Planetarium](#)

Free and open to the public, free parking (recommend lots 5 or 6).

The LZ experiment is a next-generation [dark matter](#) direct detection experiment, to be located at the [Sanford Underground Research Facility](#) (SURF) in [South Dakota](#). When completed, the experiment will be the world's most sensitive experiment for WIMPs (Weakly Interacting Massive Particles) over a large range of WIMP masses. LZ is a collaboration of 30 institutes in the US, UK, Portugal and Russia.



Kelly Stifter is a PhD student in the Physics Department with the SLAC National Accelerator Laboratory, Stanford University. In 2015, she was an undergraduate researcher at CERN, in Geneva Switzerland. From 2012-2014 she was a Physics teaching assistant at the University of Minnesota. Prior to that she was an intern at Fermilab in Batavia, Illinois. Her current research at SLAC involves system testing for the upcoming LUX ZEPELIN (LZ) detector, which will be looking for elusive Dark Matter particles called WIMPs. SLAC's participation in LZ is part of the research program of the SLAC-Stanford Kavli Institute for Particle Astrophysics and Cosmology.