



# COLLOQUIUM



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## Looking for Dark Matter a Mile Underground

### Abstract

Dark Matter has been observed through its gravitational interactions for almost a century. Currently, astronomical and cosmological observations show that dark matter makes up about 85% of the matter in the Universe. The LUX/ZEPLIN Experiment is the next generation time projection chamber designed to detect dark matter on Earth. Utilizing both data from both LUX and the SLAC test platform, the Stan State dark matter group develops data analysis techniques using statistical and machine learning.

12:30-1:30 p.m., Thursday, April 12<sup>th</sup>, McLane Hall 258  
All are welcome!