

LSST SUPERNOVAE SCIENCE, [Sam Stunke](#), Steve Kuhlmann*, Argonne National Laboratory, High Energy Physics Division, Lemont, IL 60439, kuhlmann@anl.gov

The Large Synoptic Survey Telescope (LSST) will survey the entire night sky and hopefully help us to discover the mysteries of Dark Matter and Dark Energy. Combined, they account for 96% of the universe. Baryonic material (stars, planets, people, hydrogen, helium, etc.) make up the remaining 4% of the universe. We have ideas as to what dark matter and energy could be, and the LSST will hopefully help us discover if our hypotheses are correct. By presenting the light curves of Type Ia Supernovae using the SALT2 model, we will be able to measure expansion history of the universe as well as maximizing efficiency for when the LSST is finally collecting data (projected to begin in early 2022).