This 1-day long Chicagoland-based DES meeting creates a common discussion platform for those who work on Dark Energy Survey (DES) at the KICP, University of Chicago, Fermilab, UIUC, NCSA, and Argonne. The ongoing Dark Energy Survey is designed to probe the origin of the accelerating universe and help uncover the nature of dark energy by measuring the 14-billion-year history of cosmic expansion with high precision. Learn more about the survey at the DES website. The objectives of this meeting are to provide updates and to discuss various science/infrastructure projects that are going on in Chicagoland and to provide a channel for interested people to join ongoing and create new projects.

### Organizing Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>Lindsey Bleem</td>
<td>Argonne National Laboratory</td>
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<tr>
<td>Daniel Scolnic</td>
<td>KICP</td>
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<tr>
<td>Vinu Vikram</td>
<td>Argonne National Laboratory</td>
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1. **Thomas Diehl**, Fermi National Accelerator Laboratory  
   **Talk:** Results of a Search for Strong Gravitational Lenses in SVA1 and Y1A1 using "Blue Near Anything"  
   September 3, 2015 (11:20 AM - 11:35 AM)  
   **Co-authors:** Kate Lindgren, Hallie Gaitsch

2. **Zoheyr Doctor**, UC  
   **Talk:** Search for Kilonovae in DES Supernovae Fields  
   September 3, 2015 (10:20 AM - 10:35 AM)  
   **Co-authors:** Rick Kessler, Ben Farr

3. **Samuel Flender**, ANL  
   **Talk:** Measurements of the kSZ using DES + SPT  
   September 3, 2015 (11:05 AM - 11:20 AM)

4. **Josh Frieman**, Chicago/Fermilab  
   **Talk:** Welcome  
   September 3, 2015 (9:30 AM - 9:35 AM)

5. **Josh Frieman**, Chicago/Fermilab  
   **Talk:** DES Projections  
   September 3, 2015 (3:30 PM - 3:45 PM)

6. **Michael Gladders**, UChicago  
   **Talk:** Thoughts on Strong Lensing from Sloan  
   September 3, 2015 (11:35 AM - 11:50 AM)

7. **Ravi Gupta**, ANL  
   **Talk:** DES at Adler After Dark  
   (with Brian Nord)  
   September 3, 2015 (1:15 PM - 1:35 PM)

8. **Stephen M Kent**, Fermilab  
   **Talk:** Reddening Law in the DES Survey Footprint  
   September 3, 2015 (9:35 AM - 9:50 AM)  
   **Co-authors:** Eli Rykoff, Alex Drlica-Wagner, Doug Tucker  
   Two different photometric calibrations of the Y1 and Y2 data are used to study the variation in the reddening law in the DES footprint.
9. **Nan Li, KICP & Argonne**  
*Talk:* Simulations of Cluster Scale Strong lensing

Co-authors: Mike Gladders, Salman Habib, Katrin Heitmann, Steve Rangel, Michael Florin, Lindsey Bleem, Hillary Child, Patricia Fasel

Gravitational lensing is one of the most powerful tools for investigating the dark side of the universe. Strong gravitational lensing in particular provides a unique probe of the cores of massive dark matter halos. However, understanding this phenomena based upon observational data alone is complicated; high-fidelity simulations are required for robust cosmological interpretations. To fulfill this need, we have developed a simulation pipeline with which we can create highly-realistic strong lensing images starting from N-body simulations. This pipeline includes a low- noise and unbiased density estimator to accurately capture the lensing halo’s mass distribution, routines that lens realistic source images (drawn from the Hubble Ultra Deep field) and that add galaxies along the line-of-sight, lens member galaxies, foreground stars and realistic observational noise and photon smearing. Simulations from our pipeline are currently being used to interpret observations of cluster scale strong lenses and future work is planned in preparation for LSST to improve strong-lensing identification algorithms. Aspects of this pipeline will also be applied to a number of other scientific analyses including weak lensing in galaxy clusters, cluster lensing of the cosmic microwave background, and galaxy-galaxy lensing.

10. **Carrasco Kind Matias, NCSA**  
*Talk:* Hack Session: DES data access + Data Quality (with K. Bechtol & A. Drlica-Wagner)

11. **Felipe Menanteau, NCSA, University of Illinois**  
*Talk:* DES Data Access

12. **Eric Morganson, NCSA**  
*Talk:* Examining Outer Milky Way Structures with PS1 and DES

13. **Brian Nord, Fermilab**  
*Talk:* Hack Session: DES outreach

14. **Amanda Pagul, University of Chicago**  
*Talk:* Counts in Cells: Constraining Galaxy Statistics

15. **Daniel Scolnic, KICP**  
*Talk:* Hack Session: DES Calibration