



2015 SAO Astronomy Intern Symposium

Thursday August 13, 12:30pm-4:15pm

Phillips Auditorium

Harvard-Smithsonian Center for Astrophysics



- 12:30 pm **Welcome**
- 12:35pm **Fingerprinting Hydrogen in Core-Collapse Supernova**
Sarafina Nance (University of Texas-Austin)
Advisors: Drs. Jared Parrent, Alicia Soderberg
- 12:50pm **Magnetic Turbulence and Line Broadening
in Simulations of Lyman α Absorption**
Alex Gurvich (Carnegie Mellon University)
Advisors: Drs. Blakesley Burkhart, Simeon Bird
- 1:05pm **Characterizing the Outskirts of Galaxy Clusters:
Chandra Observations of Abell 133**
Jennie Paine (Virginia Tech)
Advisors: Drs. Georgiana O'Greehan, Paul Nulsen
- 1:20pm **The Gas Sloshing Features in Galaxy Cluster Abell 2204**
Huanqing Chen (Nanjing University)
Advisors: Drs. Christine Jones, Felipe Andrade-Santos
- 1:35pm **Tea Break**
- 1:50pm **Shock Heating Analysis of NGC 1052's Diffuse Gas and Radio Lobes**
Taylor Morris (Sewanee: The University of the South)
Advisors: Drs. Christine Jones, Ralph Kraft
- 2:05pm **What Mechanisms Drive Gas Excitation within ULIRGS?**
Gabriel Vasquez (Florida State University)
Advisors: Drs. Howard Smith, Matt Ashby
- 2:20pm **Narrowband Imaging of Massive Star-Forming Regions:
Tracing Outflows and the Rate of Star Formation**
Kendall Hall (California State University, Fresno)
Advisors: Drs. Sarah Willis, Joe Hora
- 2:35pm **Ultra-Long Gamma-Ray Burst GRB150518A**
Louis Johnson (University of the Pacific)
Advisors: Drs. Atish Kamble, Rafaella Margutti
- 2:50pm **Tea Break**
- 3:05pm **Rotation Periods of M Dwarfs in the
Pan-STARRS 1 Medium-Deep Survey**
Erin Fong (Tufts University)
Advisors: Dr. Peter Williams, Prof. Edo Berger
- 3:20pm **Investigating the "Orbital Period Valley" in Kepler Data**
Brianna Thomas (Howard University)
Advisor: Dr. Jayne Birkby
- 3:35pm **A Search for Bound Cores within the Three Little Pigs Clouds**
Elizabeth Gehret (Northern Arizona University)
Advisor: Dr. Cara Battersby
- 3:50pm **Spatial Distribution of Formaldehyde and Methanol
in Prestellar and Protostellar Cores**
William Waalkes (University of Michigan)
Advisors: Dr. Viviana Guzman, Prof. Karin Oberg
- 4:05pm **Closing Remarks**