



2013 SAO Astronomy Intern Symposium

Wednesday August 14, 10:00am-4:00pm

Phillips Auditorium

Harvard-Smithsonian Center for Astrophysics



- 10:00am **Welcome**, preceded by refreshments at 9:40am
- 10:10am **Investigation of Martian Dust Source Regions from Orbital Observation**
Laura Kulowski (Brown)
Adviser: Dr. Huiqun (Helen) Wang
- 10:30am **Keeping It Hot: Are Flares the Main Players in the Heating of M Dwarf Coronae?**
Ying Feng (Katherina) (Penn State)
Advisers: Drs. Katja Poppenhager, Esra Bulbul, Andy Goulding
- 10:50am **Too Cool for School: Understanding Magnetic Dynamos and X-ray Activity in Ultracool Dwarfs**
Benjamin Cook (Princeton)
Advisers: Drs. Peter Williams, Edo Berger
- 11:10am **Break**
- 11:25am **The Cygnus Loop is Quite Shocking: Balmer Dominated Shocks in the Northeast Limb**
Amber Medina (New Mexico State)
Advisers: Drs. John Raymond, Richard Edgar
- 11:45am **Stellar Autopsies: An Analysis of Two GRB-SNe in the Nebular Phase**
Victoria Ashley Villar (MIT)
Adviser: Dr. Alicia Soderberg
- 12:05pm **A Quest For Elusive Stellar Streams**
S. Alwin Mao (UC - Berkeley)
Advisers: Drs. Nelson Caldwell, Matthew Walker
- 12:25pm **Lunch Break**
- 2:00pm **Sensitivity Analysis on Ionization Rate Uncertainties and their Diagnostic Implications**
Robert Tyler Sutherland (Auburn)
Advisers: Drs. Randall Smith, Adam Foster
- 2:20pm **When Clusters Collide: Merger Hydrodynamics in RXJ1347.5-1145**
Christina Kreisch (Washington University - St. Louis)
Adviser: Dr. Marie Machacek
- 2:40pm **Two's a Merger, Three's a Crowd: A Study of the Triple Merging Galaxy Cluster MACSJ1226.8+2153**
Jocelyn Ferrara (Barnard College - Columbia)
Advisers: Drs. Esra Bulbul, Matthew Bayliss
- 3:00pm **Break**
- 3:15pm **Hot and Cold: Measuring the Feedback, Heating and Cooling Properties of the Most Powerful AGNs in the Universe**
Michael Calzadilla (South Florida University)
Advisers: Drs. Christine Jones, Reinout van Weeren, Felipe Santos
- 3:35pm **Effect of Cosmic Microwave Background on X-ray Radiation of High Redshift Jets**
Kathryn McKeough (Carnegie Mellon)
Advisers: Drs. Aneta Siemiginowska, Vinay Kashyap
- 3:55pm **Closing Remarks**