

Program Schedule

SESSION I: 8:40 – 10:30

Historic Optical Light Curve of the Blazar 3C 454.3

Leah Jenks '17, Brian D'Auteuil '16, Colgate University
& Caitlin Rose '17, Vassar College

Advisor: Thomas Balonek, Colgate University

The 2014–2015 Optical Outburst of the Blazar 3C 454.3

Zachary Weaver '17, Nicholas Didio '16 & Carolyn Morris '17, Colgate University

Advisor: Thomas Balonek, Colgate University

X-ray Analysis of Four Low-Redshift QSOs

Carol Hundal, Wellesley College & Larson Lovdal, Middlebury College

Advisor: Eilat Glikman, Middlebury College

A New Selection Criteria for Red and Obscured Quasars in Stripe 82

Milena Crnogorčević, Middlebury College & Henry Daniels-Koch, Bowdoin College

Advisor: Eilat Glikman, Middlebury College

Assessing the Utility of Quantitative Morphology Measures in Galaxy Formation Simulations

Matthew W. Abruzzo, Haverford College

Advisor: Desika Narayanan, Haverford College

SESSION II: 11:00 – 12:30

Tracking Spectral Noise Lines in Advanced LIGO Data

Gillian Dora Beltz-Mohrmann, Wellesley College

Advisors: Alan Weinstein & Jonah Kanner, California Institute of Technology

Short Term Variability in the Open Cluster NGC 1960

Hallee Wong '18, Williams College & Aylin Garcia Soto '18, Wesleyan University

Advisor: Steven Souza, Williams College

CO and DCO+ to Constrain Turbulence and Snow Line in HD 163296

Sanaea Cooper Rose, Wellesley College

Advisor: Meredith Hughes, Wesleyan University

Searching for Non-Axisymmetry in 49 Ceti's Unusual Gas-Rich Debris Disk

Cail Daley, Wesleyan University

Advisor: Meredith Hughes, Wesleyan University

Photoionization Models of Planetary Nebulae in the Outer Regions of M31

Tim Nagle-McNaughton '18 & MeiLu McDermott '16, Williams College

Advisor: Karen Kwitter, Williams College

Spectral Analysis of Magnesium and Iron in the Interstellar Medium

Julian Dann, Wesleyan University

Advisor: Seth Redfield, Wesleyan University

SESSION III: 2:15 – 3:30

Detecting K2 Campaign 3 Planet Candidates

Katie Karnes '17, Colgate University

Advisor: Jeffrey Smith, SETI Institute/NASA Ames Research Center

Open Source Planet Hunting with Cloud-Kepler

Girish Duvvuri, Wesleyan University

Advisors: Peter McCullough & Scott Fleming, STScI

Recovery of Long Period Transiting Exoplanets

Arjun Khandelwal, Haverford College

Advisors: Rebekah I. Dawson, University of California, Berkeley & Desika Narayanan, Haverford College

Searching for Circumbinary Planets in K2 Data

Emma Lewis & Nicole Bañales, Swarthmore College; Marcus Hughes, Williams College

Advisor: Eric Jensen, Swarthmore College

Kepler Observations of ASAS Variables

Jacklyn M. Pezzato, Swarthmore College

Advisor: Kenneth J. Mighell, National Optical Astronomy Observatory

SESSION IV: 4:00 – 5:00

KELT: The Search for Extrasolar Planets

Derrick Carr '17, Haverford College; Alejandra Escamilla Saldaña '18
& Elif Samanci '18 Wellesley College

Advisor: Kim K. McLeod, Wellesley College

The Effects of Commercial Airline Traffic on LSST Observing Efficiency

Rose Gibson, Wellesley College

Advisor: Chuck Claver, LSST

Constraining the Sidereal Period and Spin Direction of (2144) Marietta

Max Kurzner '17, Colgate University

Advisor: Stephen Slivan, Wellesley College

Developing a Methodology to Classify Io's Mountains by Morphology

Tina Seeger '16, Williams College

Advisor: Ronadh Cox, Geosciences Department, Williams College

POSTERS

Modeling Absorption Features in the Reflectance Spectra of KH 15D

Rachel Aronow & Avi Stein, Wesleyan University

Advisors: Martha Gilmore & William Herbst, Wesleyan University

Precise Measurement of the Stark Shift in the Indium 6P_{1/2} State Using Two-Step Laser Spectroscopy

Allison Carter '16, Williams College

Advisor: Tiku Majumder, Physics Department, Williams College

Observation of the 2015 Occultation of Pluto

Becky Durst '17, Williams College

Advisor: Jay M. Pasachoff, Williams College

Characterization of Near Earth Asteroids (NEAs)

Jennifer Gubner, Wellesley College

Advisor: Kim McLeod, Wellesley College

Infrared SED Decomposition of Active Galactic Nuclei

Emily Stump, Williams College

Advisor: Jack Gallimore, Bucknell University

Exploring Extragalactic Emission: The H α Dot Survey

Rayna Rampalli, Wellesley College

Advisor: John Salzer, Indiana University

It's a Tight Squeeze: Reducing Noise Levels of Quantum Correlated Squeezed Light

Anneliese Rilinger, Williams College

Advisors: Kevin Jones, Williams College and Paul Lett, Joint Quantum Institute

Second Harmonic Generation and Magnetic Contrast versus Laser Intensity for Materials of Interest in Spin Hall Effect

Spin Current Generation

Sarah Stevenson, Williams College

Advisor: Jeffrey Bokor, University of California Berkeley