2023 KNAC Symposium Schedule

SATURDAY, OCTOBER 7, 2023 | WESLEYAN UNIVERSITY

8:50-9:00 AM
Welcome by Seth Redfield, Wesleyan University

9:00-10:30 AM
Talk Session I | Six Talks | Goldsmith Family Cinema

Mariah Jones, Vassar College
Modeling Asteroids and Using Microwave Telescope Data to Constrain Thermophysical Properties

Berit Olsson, Williams College
Radially Dependent Turbulence in Protoplanetary Disks

Elias Mansell, Wesleyan University
Another One Bites the Dust: Missing Radial and Vertical Substructures in Debris Disks

Treya Pember, Wellesley College;
Will Rye, Colgate University;
Madeline Hulbert, Colgate University
Near-Infrared Observations of Accretion Signatures in Low-Mass Accreting Objects

Narisara Mayer, Haverford College
Estimating M dwarf metallicities using high-resolution spectra

Qiushi (Chris) Tian, Wesleyan University
Monitoring Stellar Activities of Exoplanet Hosts with On-Campus Small Telescope

10:30-11:00 AM
Break before Talk Session II | Lobby

11:00 AM-12:00 PM
Talk Session II | Four Talks | Goldsmith Family Cinema

Tasan Smith-Gandy, Williams College
Why do low-metallicity galaxies ionize so hard?

Hector Mendoza, Williams College
Comparing Emission Line Ratios for Low- and High-Redshift Galaxies with CEERS

Tianji Zhou, Haverford College
The Behavior of The Equation of State and The Sound Speed for The Dark Matter Fluid of The Wess-Zumino Dark Radiation Model

Umman Azan, Middlebury College
Estimating the Reheating Temperature of Brane Inflation
### 2023 KNAC Symposium Schedule

**Saturday, October 7, 2023 | Wesleyan University**

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<td>12:00-12:15 PM</td>
<td>Poster Lightning Talks</td>
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<td>12:15-12:30 PM</td>
<td>Group Photo</td>
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<td>12:30-1:15 PM</td>
<td>Lunch Provided by Bon Appetit</td>
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<td>Students will eat outside or in lobby</td>
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<td>Faculty will eat in conference room</td>
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<td>1:15-2:00 PM</td>
<td>Breakout Sessions</td>
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<td>2:00-2:45 PM</td>
<td>Poster Sessions/Snacks</td>
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<td>2:45-4:00 PM</td>
<td>Talk Session III</td>
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<tr>
<td></td>
<td>Xingyun Yang, Haverford College</td>
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<td>Galaxy quenching times and timescales from</td>
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<td>simulated black hole feedback models</td>
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<td>Petra Mengistu, Haverford College</td>
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<td>Bars and Quenching</td>
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<td>Sofia Rinaldi, Wesleyan University</td>
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<td>Shaken or stirred? The kinematics and</td>
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<td>morphology of early universe galaxies</td>
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<td>Yunjing Wang, Haverford College</td>
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<td>How Spiral Structure Depends on Baryonic Mass</td>
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<td>Fraction of Galaxies</td>
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<td>Maša Kilibarda, Haverford College</td>
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<td>Exploring the Spiral Arm Stellar Mass Density</td>
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<td>Excess of Galaxies in the SDSS MaNGA Survey</td>
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<td>4:00-4:10 PM</td>
<td>Final Thoughts &amp; Goodbyes</td>
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## Hot Planets, Hot Stars: Searching for Transiting Exoplanets Using TESS and Wesleyan’s Automated Telescope

**Uday Narayanan, Wesleyan University**

**Predicted Observations of Winds in Protoplanetary Disks**

**Neil Panth, Williams College**

**Visualizing and Organizing Observation Data for the VVO 24-Inch Automated Telescope**

**Max Levin, Wesleyan University**

**Investigating Turbulence-Height Dependency in Protoplanetary Disks: Comparing CO Emission in DM Tau**

**Maile Ruiz, Williams College**

**Imaging and Modeling Debris Disk-Bearing Systems**

**Sophia Lanava, Bryn Mawr College**

**Dust Injection Rate of TP-AGB Stars in M33**

**Tessa Pearlstein, Haverford College**

**Investigating the Properties of the Invisible Galactic Halo**

**Alexa Barcenas-Meade and Liam Hilton, Vassar Collage**

**Investigating HI properties of kinematically misaligned galaxies**

**Intouch Srijumnong, Haverford College**

**Constraining Physical Properties of Highly Ionizing Galaxies Using Cloudy Models**

**Jackson Adelman, Williams College**

**Developing Methods of Identifying Candidates for Massive Black Hole Binaries**

**Hanna Harmon, Wellesley College**

**Lens Modeling of a Gravitationally-Lensed Dusty Star-Forming Galaxy**

**Manuel Estrada and DongGyu Kim, Swarthmore College**

**Gravitational waves from glitch-induced f-mode oscillations in quark and neutron stars**

**Oliver Wilson, Haverford College**

**The Universe’s Darkest Mystery: Probing Dark Matter Particle Interactions**

**Jackson Brogan and John Gador, Vassar College**