

NC Astronomers' Meeting - Saturday, 23 September 2023



Koury Auditorium, Guilford Technical Community College, Jamestown, NC

8:45 a.m. Conference Opens
Refreshments are available throughout the day in the display area. Several **display presentations** will be posted in this area throughout the day.

9:20 a.m. Welcome and Announcements

9:30 a.m. Rogier Windhorst (Arizona State University/JWST)

Chasing the Reionizers of the Universe: Lyman Continuum Radiation with Hubble and the Potential of Webb

10:30 a.m. Break – visit the posters in the display area (List of poster titles on back)

11:15 a.m. Contributed Oral Session I

- 1.1 *Probing the Deep, High Cadence Sky with the Argus Optical Array*
Lawrence Machia (UNC-Chapel Hill)
- 1.2 *ArgusSpec: High-Speed Flare Followup Spectrograph*
Thomas Procter (UNC-Chapel Hill)
- 1.3 *Measuring Orbital Period Decay in Hot Subdwarf + White Dwarf Binaries*
Bennett Kirby (High Point University)
- 1.4 *Power of noisy data. Revealing binary systems with a Be star.*
Anatoly Miroshnichenko (UNC-Greensboro)
- 1.5 *Investigating the Diagnostic Potential of Optical Emission Lines for Finding Dwarf AGN*
Jordan Wels (Elon University)

12:15 p.m. Lunch – Lunch – on your own – there are many options near the GTCC campus.

1:45 p.m. Contributed Oral Session I

- 2.1 *Update on Activities of Our DarkSky NC Chapter*
Dan Caton (Appalachian State University)
- 2.2 *Monsters on the Move: Search for Gravitationally Recoiling Supermassive Black Holes*
Yashashree Jadhav (Elon University)
- 2.3 *Separating the Spirals: A New Line Clustering Method and its Application to Spiral Graph Citizen Science Data*
Alp Tezbasaran (NC Museum of Natural Sciences)
- 2.4 *Using Machine Learning in Teaching Astronomy*
Don Smith (Guilford College)
- 2.5 *Students Transitioning from Learners to Researchers Using Robotic Telescopes*
Enrique Gómez, Western Carolina University

2:45 p.m. Announcements/Break

3:00 p.m. Regional Teaching Exchange: Share your Astro 101 teaching ideas with your colleagues.

NCAM 2023 Display Presentations

D1 *Exploring the Role of Toroidal Magnetic Fields in Relativistic Jets: A 3D PIC Simulation Study*
Athina Meli, North Carolina A&T State University

D2 *BVRI Photometric Observations and Synthetic Light Curve Analysis of FZ Delphinus*
Daniel Caton, Appalachian State University; Lucas Sanders, North Carolina State University, Christine Massingale, Appalachian State University, Riley Waddell, Appalachian State University, Ronald G. Samec, Pisgah Astronomical Research Institute

The following large format posters of JWST images are provided by Rogier Windhorst

D3 *The North Ecliptic Pole Time Domain Field*

D4 *The overlapping galaxy pair VV191*

D5 *The lensing cluster MACS0416 at redshift $z=0.35$*

D6 *The lensing cluster Planck G165 at $z=0.35$ that is triply lensing a background Supernova at $z=1.78$.*