

AAS 244 Meeting in a Meeting: ”The Powerful Shocks in Novae”

Monday, June 10 2024, 2:00-3:30 pm

How it All Starts: Accretion and the Thermonuclear Runaway in Novae

2:00-2:30 pm Sumner Starrfield et al. “The Evolution Leading to a Thermonuclear Runaway”

2:30-2:40 pm Sumner Starrfield et al. “Continuing Our Predictions for the Imminent Outburst of T CrB”

2:40-3:10 pm Bill Wolf “Linking Progenitor Parameters to Nova Outburst Outcomes”

3:10-3:30 pm Maytrayee Bose et al. “New Insight on Stardust Composition from Nova Outburst Simulations”

Tuesday, June 11, 10:00-11:30 pm

What We Learn From X-Ray, Optical and IR spectra

10:00-10:30 pm Luca Izzo: “Surprising Revelations in High Resolution Optical Spectra of Classical Novae in Outburst”

10:30-11:00 pm Ehud Behar et al. “Hot Shocked Plasma in Novae, and Its Mixing with Cold Gas”

11:00-11:30 pm Charles Woodward et al. “What We Learn From X-Ray, Optical and IR spectra”

Tuesday, June 12, 2:00-3:30 pm

Shock Physics and Novae Outbursts

2:00-2:30 pm Marina Orio “A NuSTAR Hard X-ray Observation of RS Oph in 2021: Correlations with the Gamma-ray Emission and Implications for the Shock Site”

2:30-3:00 pm Elias Aydi “Exploring the Formation of Shocks in Novae”

3:00-3:30 pm Discussion

Wednesday, June 12 10:00-11:30 am

Gamma-ray Emission from Novae

10:00-11:00 pm Chi Cheung et al. “The Population of Gamma-ray Emitting Novae”

10:30-11:00 Laura Chomiuk “A Shocking Shift in Paradigm for Classical Novae”

11:00-11:30 pm Margarita Hernanz et al. “Gamma-rays from Novae Related to Radioactive Decay and their Detectability”

Thursday, June 13, 10:00-11:30 pm

Revisting Novae With a MultiMessenger Approach

10:00-10:30 am Kiril Sokolovsky “Exploring the Shock-Driven High-Energy Emission of Classical Novae with NuSTAR”

10:30-11:00 am Jessie Thwaites et al. “Searching for neutrinos from nova T Coronae Borealis with IceCube in real-time”

11:00-11:30 am Justing Vandenbroucke “Novae as Possible Neutrino Sources”