

High Energy Astrophysics Division 19th Annual Meeting

13 March – 17 March 2022

Pittsburgh, PA

Meeting Program

SUNDAY, 13 March 2022**3:00 pm – 7:00 pm, Registration**17th Floor/ Coat Check**7:00 pm – 8:30 pm, Opening Reception**

William Penn Ballroom

MONDAY, 14 March 2022**7:30 am – 6:00 pm, Registration**17th Floor/Coat Check**8:15 am – 8:30 am, Welcome Address, Fiona Harrison, HEAD Chair**Grand Ballroom, 17th Floor**8:30–10:00 am, Oral Session: 100 — Stellar/Compact I**Grand Ballroom, 17th Floor

8:30 am – 8:45 am	100.01 — Measuring the masses of magnetic white dwarfs: A NuSTAR Legacy Survey	Aarran Shaw, (<i>University of Nevada, Reno</i>)
8:45 am – 9:00 am	100.02 — The relative contribution to heavy metals production from binary neutron star mergers and neutron star-black hole mergers	Hsin-Yu Chen, (<i>Massachusetts Institute of Technology</i>)
9:00 am – 9:15 am	100.03 — X-ray and virtual-reality modeling of tau Sco's magnetosphere	Christopher Russell, (<i>University of Delaware</i>)
9:15 am – 9:30 am	100.04 — Neutron Star Dynamics and Radio Pulsars in Globular Clusters	Claire Ye, (<i>Northwestern/CIERA</i>)
9:30 am – 9:45 am	100.05 — Who Ordered That? Unequal-Mass Binary Black Hole Mergers Have Larger Effective Spins	Salvatore Vitale, (<i>MIT</i>)
9:45 am – 10:00 am	100.06 — Chandra Grating Spectroscopy Finds a Surprising Change in the Wind Mass-Loss Rate of the O Supergiant zeta Puppis Over 18 Years	David Cohen, (<i>Swarthmore College</i>)

10:00 am – 10:30 am, AM COFFEE BREAK and POSTER SESSION**10:30 am – 12:00 pm, Oral Session: 101 — AGN I**Grand Ballroom – 17th Floor

10:30 am – 10:45 am	101.01 Withdrawn	Bradford Snios, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
10:45 am – 11:00 am	101.02 — Are Active Galactic Nuclei in Post-Starburst Galaxies Driving the Change or Along for the Ride?	Lauranne Lanz, (<i>The College of New Jersey</i>)
11:00 am – 11:15 am	101.03 — The origin of X-ray emission from most radio-loud quasars	Shifu Zhu, (<i>Pennsylvania State University</i>)
11:15 am – 11:30 am	101.04 — Morphological clues to the X-ray emission from extragalactic jets	Karthik Reddy Solipuram, (<i>University of Maryland Baltimore County</i>)
11:30 am – 11:45 am	101.05 — HST Spectroscopy of Ly-alpha; Emission in Low-Redshift Weak Emission-Line Quasars: Probing for Rapid Accretion in Active Galactic Nuclei	Jeremiah Paul, (<i>University of Nevada</i>)

11:45 am – 12:00 pm	101.06 — Call of the Duty Cycle: Searching for Fading AGN in the 12 mu m Galaxies	Lynnie Saade, (<i>University of California, Los Angeles</i>)
12:00 pm – 1:30 pm, HEX-P: The High-energy X-ray Probe Frick – CL Floor		
12:00 pm – 1:30 pm, HEACIT Phipps – CL Floor		
12:00 pm – 1:30 pm, LUNCH (On Your Own)		
1:30 pm – 2:30 pm, Plenary Session: 102 — Invited, Paul Hertz Grand Ballroom – 17 th Floor		
1:30 pm – 2:30 pm	102.01 — Challenges in NASA Astrophysics, today +/- 10 years	Paul Hertz, (<i>NASA</i>)
2:30 pm – 4:00 pm, Plenary Session: 103 — Dissertation I-III Prize Talk Grand Ballroom – 17 th Floor		
2:30 pm – 3:00 pm	103.01 — Binary neutron star mergers: The fate of the merger remnant in GW170817 and its imprint on the jet structure	Ariadna Murguia Berthier, (<i>Northwestern University</i>)
3:00 pm – 3:30 pm	103.02 — The Extremes of Magnetic Accretion	Jakob Van den Eijnden, (<i>University of Oxford</i>)
3:30 pm – 4:00 pm	103.03 — The Whisper and the Bang: Cosmic fireworks in the lives of compact binarie	Kishalay De, (<i>MIT</i>)
4:00 pm – 4:30 pm, PM COFFEE BREAK and POSTER SESSION		
4:30 pm – 6:00 pm, Special Session: 104 — AGN STORM 2: Initial Results from this Large, Multi-wavelength Reverberation Mapping Campaign on Mrk 817 Urban – 17 th Floor		
4:30 pm – 4:40 pm	104.01 — Space Telescope and Optical Reverberation Mapping Project 2: Program Overview	Gisella De Rosa, (<i>STScI</i>)
4:40 pm – 5:00 pm	104.02 — Space Telescope and Optical Reverberation Mapping Project 2: Variations of the UV Absorption Lines in Mrk 817	Gerard Kriss, (<i>STScI</i>)
5:00 pm – 5:20 pm	104.03 — Space Telescope and Optical Reverberation Mapping Project 2: the variable X-ray obscurer in Mrk 817	Ethan Partington, (<i>Wayne State University</i>)
5:20 pm – 5:40 pm	104.04 — Space Telescope and Optical Reverberation Mapping Project 2: Broad line lags from UV emission line reverberation mapping of Mrk817	Yasaman Homayouni, (<i>Space Telescope Science Institute</i>)
5:40 pm – 6:00 pm	104.05 — Space Telescope and Optical Reverberation Mapping Project 2: continuum reverberation mapping in Mrk 817	Edward Cackett, (<i>Wayne State University</i>)

4:30 pm – 6:00 pm, Special Session: 105 — Panel Discussion: Creating a Roadmap for High-resolution X-ray Cross-calibrationGrand Ballroom – 17th Floor

4:30 pm – 4:52pm	105.01 — Panel Discussion	Carles Badenes, (<i>)</i>
4:52 pm – 5:14 pm	105.02 — Panel Discussion	Kristin Madsen, (<i>Goddard Space Flight Center</i>)
5:14 pm – 5:36 pm	105.03 — Panel Discussion	John Raymond, (<i>)</i>
5:36 pm – 5:58 pm	105.04 — Panel Discussion	Vinay Kashyap, (<i>Center for Astrophysics Harvard & Smithsonian</i>)

6:00 pm – 7:30 pm, A Python-friendly Introduction to Doing Science with the Chandra Source Catalog

Phipps – CL Floor

6:00 pm – 7:30 pm, Poster Viewing & Happy Hour**6:00 pm – 7:30 pm, Poster Sessions 106–111****Poster Session 106: AGN**

6:00 pm – 7:30 pm	106.04 — Heavily Obscured Active Galactic Nuclei in the NuSTAR Era	Xiurui Zhao, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm – 7:30 pm	106.05 — Counterpart Detection, Spectral Analysis, ML Classification, and Followup of 4FGL Unassociated Sources	Stephen Kerby, (<i>Penn State University</i>)
6:00 pm – 7:30 pm	106.08 — Stacked Gamma-Ray Analysis of Galaxies Hosting Molecular Outflows	Alex McDaniel, (<i>Clemson University</i>)
6:00 pm – 7:30 pm	106.09 — First results from CAgNVAS: a catalogue of VLA proper motions in extragalactic jets	Agniva Roychowdhury, (<i>University of Maryland-Baltimore County</i>)
6:00 pm – 7:30 pm	106.10 — Time-dependent photoionisation modeling of AGN outflows	Daniele Rogantini, (<i>MIT Kavli Institute</i>)
6:00 pm – 7:30 pm	106.11 — Multiwavelength analysis of Periodic Fermi-LAT Blazars	Pablo Penil, (<i>Clemson University</i>)
6:00 pm – 7:30 pm	106.12 — Probing the Multimessenger Nature of AGNs with amEGO-X	Tonia Venters, (<i>NASA Goddard Space Flight Center</i>)
6:00 pm – 7:30 pm	106.14 — Time Dependent Photoionization Modeling of Active Galactic Nuclei Warm Absorbers.	Dev Sadaula, (<i>Western Michigan University</i>)
6:00 pm – 7:30 pm	106.15 — An Inverse Gamma Model for Interpreting the Gamma-ray Variability of Flaring Blazars	Aryeh Brill, (<i>NASA Postdoctoral Program Fellow, NASA GSFC</i>)
6:00 pm – 7:30 pm	106.16 — Studying the circumnuclear environment of Polar-scattered Seyfert 1 galaxies	Sulov Chalise, (<i>Montana State University</i>)
6:00 pm – 7:30 pm	106.17 — Ionization Distributions in Outflows of Active Galaxies: Universal Trends and Prospect of Future XRISM Measurements	Ehud Behar, (<i>Technion</i>)
6:00 pm – 7:30 pm	106.18 — Fluorescence X-ray lines as probes of the gaseous environment in accretion sources	Roi Rahin, (<i>Technion - Israel Institute of Technology</i>)
6:00 pm – 7:30 pm	106.19 — Spectral Signatures of MHD-driven Ultra-Fast Outflows in Seyfert AGNs	Keigo Fukumura, (<i>James Madison University</i>)
6:00 pm – 7:30 pm	106.21 — X-ray-to-infrared spectral energy distributions and source properties in the XMM-SERVS fields	Fan Zou, (<i>The Pennsylvania State University</i>)

6:00 pm –7:30 pm	106.22 — A Search for Obscured AGNs in Dwarf Galaxies	Shrey Ansh, (<i>University of Alabama in Huntsville</i>)
6:00 pm –7:30 pm	106.23 — Absorption variability in obscured AGN	Nuria Torres-Alba, (<i>Clemson University</i>)
6:00 pm –7:30 pm	106.25 — Multi-Wavelength Radiation and Polarization Signatures from Relativistic Magnetic Reconnection in Blazars	Haocheng Zhang, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	106.26 — Hitting A Brick Wall: Simulating the Interaction of a Relativistic Jet with an ICM/Lobe Interface in Cygnus A	John ZuHone, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	106.27 — Inverse Compton Cooling in High-z Radio Galaxies	Edmund Hodges-Kluck, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	106.28 — Modelling X-ray reverberation lags in AGN	Guglielmo Mastroserio, (<i>Caltech</i>)
6:00 pm –7:30 pm	106.29 — 3D PIC Simulations for Relativistic Jets with a Toroidal Magnetic Field	Kenichi Nishikawa, (<i>AAMU/Physics</i>)
6:00 pm –7:30 pm	106.30 — A High-Redshift AGN Serendipitously Discovered by NuSTAR	Michael Pedowitz, (<i>The College of New Jersey</i>)
6:00 pm –7:30 pm	106.31 — A Deep Analysis of Nearby Heavily Obscured AGN with XMM-Newton and NuSTAR	Ross Silver, (<i>Clemson University</i>)
6:00 pm –7:30 pm	106.32 — The Eccentric Nature of Eccentric Tidal Disruption Events	Matthew Cufari, (<i>Syracuse University</i>)
6:00 pm –7:30 pm	106.33 — Gamma-ray Source Classification Via Machine Learning	Scott Joffre, (<i>Clemson University</i>)
6:00 pm –7:30 pm	106.34 — Swift-BAT blazars and their jets through cosmic time	Lea Marcotulli, (<i>Yale University</i>)
6:00 pm –7:30 pm	106.35 — Uncovering a Hidden Mini-Monster: A Heavily Obscured AGN in a Dwarf Star-forming Galaxy	Ryan Hickox, (<i>Dartmouth College</i>)
6:00 pm –7:30 pm	106.36 — Constraining the X-ray Luminosity of the Compact Obscured Nuclei NGC1377 and IC860	Sofia Stepanoff, (<i>The College of New Jersey</i>)
6:00 pm –7:30 pm	106.37 — Developing a physical model for the AGN UV/optical power spectra	Christos Panagiotou, (<i>MIT Kavli Institute for Astrophysics and Space Research</i>)
6:00 pm –7:30 pm	106.38 — Modeling TXS 0506+056 Neutrino Flares for amEGO-X	Tiffany Lewis, (<i>NPP Fellow NASA Goddard</i>)
6:00 pm –7:30 pm	106.39 — A Model for the X-ray Soft Excess in Active Galactic Nuclei: Combining the Effects of Reflection and a Warm Corona	David Ballantyne, (<i>Georgia Institute of Technology</i>)
6:00 pm –7:30 pm	106.41 — Cosmic X-Ray Background Measurement from NuSTAR in Energies of 3-30 keV	Steven Rosslund, (<i>University of Utah</i>)
6:00 pm –7:30 pm	106.42 — A NICER Look at the ‘Changing Look’ Seyfert NGC 2992	Michael Nowak, (<i>Dept. of Physics, Washington University in St. Louis</i>)
6:00 pm –7:30 pm	106.43 — AGN Jets as Heat Pumps in Cool-Core Clusters	Jennifer Stafford, (<i>University of Wisconsin, Madison</i>)
6:00 pm –7:30 pm	106.44 — Testing Forward Modeling Analysis with Swift/BAT AGN	Anthony Ortega, (<i>The College of New Jersey</i>)
6:00 pm –7:30 pm	106.45 — X-ray Reverberation Mapping of Ark 564 using Gaussian Process Regression	Collin Lewin, (<i>MIT</i>)

6:00 pm –7:30 pm	106.46 — Swift-BAT 70-month survey: The distributions of Eddington ratios of obscured and unobscured AGN are significantly different from each other	Tonima Tasnim Ananna, <i>(Dartmouth College)</i>
6:00 pm –7:30 pm	106.47 — Modeling the Extragalactic Background Light and Absorption of High Energy Gamma-Rays	Justin Finke, <i>(US Naval Research Laboratory)</i>
6:00 pm –7:30 pm	106.48 — The BASS DR2 Survey: Results for Obscured AGN	Michael Koss, <i>(Eureka Scientific, Inc.)</i>
6:00 pm –7:30 pm	106.49 — Systematic uncertainties in photoionization modeling	Ralf Ballhausen, <i>(University of Maryland College Park)</i>
6:00 pm –7:30 pm	106.50 — Accretion Disk MHD Winds: A Rosetta Stone of the AGN Morphology and SEDs	Demosthenes Kazanas, <i>(NASA - GSFC)</i>
6:00 pm –7:30 pm	106.51 — Signatures of Feedback in the Spectacular Extended Emission Region of NGC 5972	T. Harvey, <i>(Center for Astrophysics Harvard & Smithsonian)</i>
6:00 pm –7:30 pm	106.52 — Spectropolarimetry of Blazars with SALT	Stephanie Podjed, <i>(Dartmouth College)</i>
6:00 pm –7:30 pm	106.53 — NuSTAR Observations of a Prototypical HotDOG at an Accessible Redshift	Daniel Stern, <i>(Jet Propulsion Laboratory)</i>
6:00 pm –7:30 pm	106.54 — The NuSTAR survey of the JWST NEP field: 4 years of AGN monitoring in the hard X-ray band	Francesca Civano, <i>(Center for Astrophysics Harvard & Smithsonian)</i>
6:00 pm –7:30 pm	106.56 — Deep Chandra Observations of M84: AGN Feeding and Feedback from Kiloparsec Scales to the Bondi Radius	Christopher Bambi, <i>(Princeton University)</i>
6:00 pm –7:30 pm	106.57 — Stratified Shearing Box Simulations of Two-temperature AGN Coronae	Christopher Bambi, <i>(Princeton University)</i>
6:00 pm –7:30 pm	106.58 — X-ray reverberation mapping reveals a dynamic corona	William Alston, <i>(European Space Agency)</i>
6:00 pm –7:30 pm	106.60 — The Active Fraction of Massive Black Holes in Dwarf Galaxies	Fabio Pacucci, <i>(Harvard University)</i>
6:00 pm –7:30 pm	106.61 — Characterization of NGC 7479's torus variability	Andrealuna Pizzetti, <i>(Clemson University)</i>
6:00 pm –7:30 pm	106.62 — X-ray Variability of Jets on kpc scales - Results of a comprehensive Chandra archival survey	Eileen Meyer, <i>(University of Maryland Baltimore County)</i>
6:00 pm –7:30 pm	106.64 — Exploring the high-redshift PBH-Lambda-CDM Universe: early black hole seeding, the first stars and cosmic radiation backgrounds	Nico Cappelluti, <i>(University of Miami)</i>
Poster Session 107: ISM/Galaxies/Clusters		
6:00 pm –7:30 pm	107.03 — Oxygen and iron in interstellar dust: an X-ray view	Ioanna Psaradaki, <i>(University of Michigan)</i>
6:00 pm –7:30 pm	107.04 — Temperature and Metallicity Gradients in the Hot Gas Outflows of M82	Laura Lopez, <i>(Ohio State University)</i>
6:00 pm –7:30 pm	107.05 — Surprises from the hot circumgalactic medium (CGM) of the Milky Way (MW) and MW-like nearby star-forming galaxies	Sanskriti Das, <i>(The Ohio State University)</i>
6:00 pm –7:30 pm	107.06 — The Si K Edge Gas to Dust Ratio Towards the Galactic Bulge	Jun Yang, <i>(MASSACHUSETTS INSTITUTE OF TECHNOLOGY)</i>
6:00 pm –7:30 pm	107.08 — The Stellar Age Dependence of X-ray Emission from Normal Star-Forming Galaxies in the GOODS Fields	Woodrow Gilbertson, <i>(University of Arkansas)</i>

6:00 pm –7:30 pm	107.09 — The X-ray Spectral Energy Distributions of Nearby Starburst Galaxies: Implications for the High Redshift Universe	Kristen Garofali, <i>(NASA/GSFC)</i>
6:00 pm –7:30 pm	107.10 — Exploring the nature of Galactic PeVatron candidates from X-ray to TeV energies	Massimo Capasso, <i>(Barnard College, Columbia University)</i>
6:00 pm –7:30 pm	107.11 — Power Spectrum Analysis of the Warm Hot Intergalactic Medium	Giulia Cerini, <i>(University of Miami)</i>
6:00 pm –7:30 pm	107.12 — Studies of Galactic Cosmic-Ray Accelerators with VERITAS	Brian Humensky, <i>(University of Maryland)</i>
6:00 pm –7:30 pm	107.13 — Detection of the hot component of the circumgalactic medium of the Milky Way around the sightline of Mrk 421	Souradip Bhattacharyya, <i>(Ohio State University)</i>
6:00 pm –7:30 pm	107.14 — Analysis of the Orion-Eridanus Superbubble’s X-ray Emission Using HaloSat	Chase Fuller, <i>(University of Iowa)</i>
6:00 pm –7:30 pm	107.16 — Properties of the Hot Gas Outflow of NGC 253	Sebastian Lopez, <i>(The Ohio State University)</i>
6:00 pm –7:30 pm	107.17 — The X-Ray Spectral Energy Distribution of the Nearby Giant Elliptical Galaxy Maffei 1	Andrew Ferrell, <i>(University of Arkansas)</i>
6:00 pm –7:30 pm	107.18 — Simulations of Charge Exchange between Bare Ne and atomic H and He at solar wind velocities using the Time-Dependent Close-Coupling method	Steven Bromley, <i>(Auburn University)</i>
6:00 pm –7:30 pm	107.21 — Two-Temperature Model for X-Ray Emission Towards NPS and SPS	Joshua Kingsbury, <i>(Columbus State Community College)</i>
6:00 pm –7:30 pm	107.24 — A NuSTAR and Chandra Study of Late Stage Galaxy Cluster Merger CL 0217+70 and Its Tell-Tale Radio Halo	Aysegul Tumer, <i>(University of Utah)</i>
6:00 pm –7:30 pm	107.25 — Electron Re-acceleration via Ion Cyclotron Waves in the Intracluster Medium	Aaron Tran, <i>(Columbia University)</i>
6:00 pm –7:30 pm	107.26 — Characterization of morphological properties of galaxy groups and clusters in the eROSITA Final Equatorial-Depth Survey (eFEDS)	Vittorio Ghirardini, <i>(Max Planck Institute for Extraterrestrial Physics)</i>
6:00 pm –7:30 pm	107.27 — Simulations of Large-Scale Cold Fronts and Subcluster Interactions in the Perseus Cluster	Elena Bellomi, <i>(Harvard-Smithsonian Center for Astrophysics)</i>
6:00 pm –7:30 pm	107.29 — New evidence for early formation of Fossil Groups: The case for RX J1007+3800	Renato Dupke, <i>(Eureka/UM/ON)</i>
6:00 pm –7:30 pm	107.30 — Introduction and application of a new blind source separation method for extended sources in X-ray astronomy.	Adrien Picquenot, <i>(UMD / NASA GSFC)</i>
6:00 pm –7:30 pm	107.32 — The Evolution of AGN Activity in Brightest Cluster Galaxies	Taweewat Somboonpanyakul, <i>(Stanford University)</i>
6:00 pm –7:30 pm	107.33 — AGN feedback in Planck selected clusters	Valeria Olivares, <i>(University of Kentucky)</i>
6:00 pm –7:30 pm	107.36 — Testing hot core scenarios for fossil groups using metal enrichment	Rebeca Batalha, <i>(National Observatory)</i>
6:00 pm –7:30 pm	107.37 — The Unseen: Clumping in the Outskirts of Galaxy Clusters	Christian Norseth, <i>(University of Utah)</i>
6:00 pm –7:30 pm	107.38 — The Mass of Abell 478: Differing Results From Chandra and NuSTAR	Cicely Potter, <i>(University of Utah)</i>
6:00 pm –7:30 pm	107.39 — Inverse Compton emission detection for NuSTAR spectroscopy using autoencoders	Sheng-Chieh Lin, <i>(University of Kentucky)</i>

6:00 pm –7:30 pm	107.40 — Tracing baryons in the cosmic web filaments with eROSITA	Soumya Shreeram, (<i>Max Planck Institute for Extraterrestrial Physics</i>)
6:00 pm –7:30 pm	107.41 — A Search for Inverse Compton Scattering in MACSJ0717	Randall Rojas Bolivar, (<i>University of Utah</i>)
6:00 pm –7:30 pm	107.42 — The Importance of Being Interpretable	Michelle Ntampaka, (<i>Space Telescope Science Institute</i>)
Poster Session 108: Missions and Instruments		
6:00 pm –7:30 pm	108.02 — The Advanced X-ray Imaging Satellite	Andrew Ptak, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	108.03 — Status of the Prototype Schwarzschild-Couder Telescope Project	Brian Humensky, (<i>University of Maryland</i>)
6:00 pm –7:30 pm	108.04 — Progress in Realizing Adjustable X-ray Optics	Casey DeRoo, (<i>University of Iowa</i>)
6:00 pm –7:30 pm	108.05 — Fabricating the Next Generation of High Energy Reflection Gratings	Cecilia Fasano, (<i>University of Iowa</i>)
6:00 pm –7:30 pm	108.06 — Assessing the Performance of Customized Gratings for X-ray Spectroscopy	Casey DeRoo, (<i>University of Iowa</i>)
6:00 pm –7:30 pm	108.07 — Searching for Unusual Sources in the Chandra Source Catalog	Dustin Swarm, (<i>University of Iowa</i>)
6:00 pm –7:30 pm	108.08 — Enhancing the Chandra archive with ZTF alert streams through annotation	Michael McCollough, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	108.10 — Variability of the unrejected particle background on Chandra ACIS	Catherine Grant, (<i>MIT</i>)
6:00 pm –7:30 pm	108.11 — Preparing for Athena WFI - Using XMM-Newton SWM data to understand the particle background	Gerrit Schellenberger, (<i>Smithsonian Astrophysical Observatory</i>)
6:00 pm –7:30 pm	108.12 — Mitigating the effects of particle background on the Athena Wide-Field Imager	Eric Miller, (<i>MIT</i>)
6:00 pm –7:30 pm	108.13 — Introducing the HEACIT (High Energy Codes, Interfaces, and Tools) Working Group	Lia Corrales, (<i>University of Michigan</i>)
6:00 pm –7:30 pm	108.14 — Pylira: a Python package for Low-counts Image Reconstruction and Analysis	Axel Donath, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	108.15 — High-density plasma effects in photoionization models	Jerome Deprince, (<i>Caltech</i>)
6:00 pm –7:30 pm	108.16 — Benchmarking X-ray emission from non-equilibrium plasmas with an electron beam ion trap	Natalie Hell, (<i>Lawrence Livermore National Laboratory</i>)
6:00 pm –7:30 pm	108.17 — Unsupervised Machine Learning for the Classification of Astrophysical X-ray Sources	Victor Samuel Perez Diaz, (<i>Universidad Del Rosario</i>)
6:00 pm –7:30 pm	108.18 — Charge Sharing in Cross-Strip Germanium Detectors	Jacqueline Beechert, (<i>UC Berkeley/SSL</i>)
6:00 pm –7:30 pm	108.19 — Detector System for Time-Domain Astrophysics in the Soft Gamma-ray Regime	Hannah Gulick, (<i>UC Berkeley, SSL</i>)
6:00 pm –7:30 pm	108.20 — ComPair Silicon Tracker	Sambid Wasti, (<i>Catholic University of america</i>)
6:00 pm –7:30 pm	108.21 — Maximizing CNN potential to predict X-ray polarization through photoelectron production in GPDs	Michela Negro, (<i>NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	108.22 — Diffuse X-rays from the Local Galaxy (DXL-4)	Roberto Moncada, (<i>University of Miami</i>)

6:00 pm –7:30 pm	108.23 — Halosat – A Cubesat That Studied The Hot Galactic Halo	Philip Kaaret, (<i>University of Iowa</i>)
6:00 pm –7:30 pm	108.24 — Performance Verification Targets for XRISM: Galactic Compact	Brian Williams, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	108.25 — Performance Verification Targets for XRISM: Galactic Diffuse	Brian Williams, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	108.26 — Performance Verification Targets for XRISM: Extragalactic Compact	Brian Williams, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	108.27 — Performance Verification Targets for XRISM: Extragalactic Diffuse	Brian Williams, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	108.28 — The Compton Spectrometer and Imager	John Tomsick, (<i>UC Berkeley/SSL</i>)
6:00 pm –7:30 pm	108.29 — Measurement of emission lines by the Compton Spectrometer and Imager	Jacqueline Beechert, (<i>UC Berkeley/SSL</i>)
6:00 pm –7:30 pm	108.30 — The COSI Data Challenges and Simulations	Chris Karwin, (<i>Clemson University</i>)
6:00 pm –7:30 pm	108.31 — The Performance Characteristics of the NRL2 ASIC Designed for the Compton Spectrometer and Imager Small Explorer (COSI-SMEX) Telescope	Jarred Roberts, (<i>UC San Diego</i>)
6:00 pm –7:30 pm	108.32 — BurstCube Instrument Flight Software and Science Datatypes	Michael Briggs, (<i>University of Alabama in Huntsville</i>)
6:00 pm –7:30 pm	108.33 —BurstCube: Operations	Pi Nuessle, (<i>George Washington University</i>)
6:00 pm –7:30 pm	108.34 — BurstCube Ground Software and Data Analysis Pipeline	Joseph Asercion, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	108.35 — BurstCube: Calibrations	Alyson Joens, (<i>George Washington University</i>)
6:00 pm –7:30 pm	108.36 — BurstCube: Instrument Flight Firmware	Sean Griffin, (<i>WIPAC</i>)
6:00 pm –7:30 pm	108.37 — The Mini Astrophysical MeV Background Observatory (MAMBO) CubeSat Mission	Peter Bloser, (<i>Los Alamos National Laboratory</i>)
6:00 pm –7:30 pm	108.38 — A Soft X-ray Sky Monitor, Transient Finder, and Burst Detector for High-energy and Multimessenger Astrophysics	Abraham Falcone, (<i>Pennsylvania State University</i>)
6:00 pm –7:30 pm	108.39 — Characterizing the Speedster-EXD 550 X-ray Hybrid CMOS Detectors for the BlackCAT CubeSat	Daniel LaRocca, (<i>Pennsylvania State University</i>)
6:00 pm –7:30 pm	108.40 — Planned Observations and Science with the BlackCAT CubeSat X-Ray Transient Monitor	Joseph Colosimo, (<i>Pennsylvania State University</i>)
6:00 pm –7:30 pm	108.41 — Probing physics of galaxy formation with a wide-field X-ray microcalorimeter	Anna Ogorzalek, (<i>NASA GSFC/UMCP</i>)
6:00 pm –7:30 pm	108.43 — Conceiving and Designing Future Missions to Cost and Schedule Requirements	Jonathan Arenberg, (<i>Northrop Grumman</i>)
6:00 pm –7:30 pm	108.44 — Uncertainty in the time to complete a complex manufacturing campaign	Jonathan Arenberg, (<i>Northrop Grumman</i>)
6:00 pm –7:30 pm	108.45 — The Survey and Time-domain Astrophysical Research Explorer (STAR-X)	William Zhang, (<i>NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	108.46 — Science with STAR-X, an X-ray/UV Time-domain Surveyor MIDEX	Edmund Hodges-Kluck, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	108.47 — Arcus - Exploring the formation and evolution of clusters, galaxies, and stars	Randall Smith, (<i>Smithsonian Astrophysical Observatory</i>)

6:00 pm –7:30 pm	108.48 — Soft x-ray diffraction efficiency and record resolving power of critical-angle transmission gratings for Arcus	Ralf Heilmann, (<i>Massachusetts Institute of Technology</i>)
6:00 pm –7:30 pm	108.49 — aMEGO-X bridges the MeV gap for multimessenger astrophysics	Marco Ajello, (<i>Clemson University</i>)
6:00 pm –7:30 pm	108.50 — aMEGO-X Localization of Short GRBs	Yong Sheng, (<i>Clemson University</i>)
6:00 pm –7:30 pm	108.51 — aMEGO-X Instrument Design and Predicted Performance	Carolyn Kierans, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	108.52 — Improving the transient sensitivity of amEGO-X using single-site events	Henrike Fleischhack, (<i>Catholic University of america</i>)
6:00 pm –7:30 pm	108.53 — A hard X-ray complement to Athena: The prospect of hard X-ray astronomy in the 2030s and the FORCE mission	Ann Hornschemeier, (<i>NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	108.56 — Gamow’s GRB Photo-z Estimate Performance for Studying the Young Universe	Hallie Fausey, (<i>George Washington University</i>)
6:00 pm –7:30 pm	108.58 — The Lunar Occultation eXplorer (LOX): MeV Gamma-Ray Astrophysics Across Space and Time	Richard Miller, (<i>Johns Hopkins University Applied Physics Laboratory</i>)
6:00 pm –7:30 pm	108.59 — Mapping the Sky at MeV Energies with the Lunar Occultation Explorer	Peter Bloser, (<i>Los Alamos National Laboratory</i>)
6:00 pm –7:30 pm	108.60 — Lunar Far-Side Radio Arrays: A Preliminary Site Survey	Zoe Le Conte, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	108.61 — Bridging astrophysics and heliophysics: observing high-energy solar flaring activity to understand stellar flares	Thomas Chen, (<i>Academy for Mathematics, Science, and Engineering</i>)
6:00 pm –7:30 pm	108.62 — The Marshall 100-Meter X-ray Beamline Facility	Nicholas Thomas, (<i>NASA Marshall Space Flight Center</i>)
6:00 pm –7:30 pm	108.64 — Radio Searches of Fermi Unassociated Gamma-Ray Sources	Seth Bruzewski, (<i>University of New Mexico</i>)
6:00 pm –7:30 pm	108.65 — The NEP Hard X-ray survey with ART-XC	Chien-Ting Chen, (<i>NASA MSFC / USRA</i>)
6:00 pm –7:30 pm	108.67 — U.S. Participation in the Cherenkov Telescope Array	David Williams, (<i>University of California, Santa Cruz</i>)
Poster Session 109: Multi-messenger Astrophysics		
6:00 pm –7:30 pm	109.01 — A search for hostless short GRBs with large-aperture telescopes	Brendan O’Connor, (<i>George Washington University</i>)
6:00 pm –7:30 pm	109.02 — The Trans-Iron Galactic Element Recorder for the International Space Station (TIGERISS)	Brian Rauch, (<i>Washington University in St. Louis</i>)
6:00 pm –7:30 pm	109.03 — X-ray and MeV Gamma-ray Polarization as Powerful Diagnostics for Blazars and Spider Pulsars	Haocheng Zhang, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	109.04 — Galactic Cosmic Ray Nuclei Abundances from ^{10}B to ^{56}Fe with SuperTIGER	Wolfgang Zober, (<i>Washington University in St. Louis</i>)
6:00 pm –7:30 pm	109.05 — Deep-Learning for Midband Gravitational-Wave Data Analysis	Ryan Raikman, (<i>Carnegie Mellon University</i>)
6:00 pm –7:30 pm	109.06 — Kilonova constraints from the LIGO/Virgo O3 run	Simone Dichiara, (<i>The Pennsylvania State University</i>)
6:00 pm –7:30 pm	109.07 — The Search for Gamma-ray Emission from Fermi-GBM and Swift-BAT in Coincidence with GWTC Events	Corinne Fletcher, (<i>Universities Space Research Association</i>)

6:00 pm –7:30 pm	109.08 — TACH, the GCN Upgrade	Eric Burns, (<i>Louisiana State University</i>)
6:00 pm –7:30 pm	109.09 — Galactic Cosmic Ray Accelerators Unveiled with amEGO-X	Zorawar Wadiasingh, (<i>University of Maryland College Park / NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	109.10 — Spectrum of the Isotropic Diffuse Gamma-ray Background	Changam Meenakshi Rajagopal, (<i>Clemson University</i>)
6:00 pm –7:30 pm	109.11 — The Best Case Scenario: Towards prompt arcminute localization of a GW source with targeted GRB searches	Aaron Tohuvavohu, (<i>University of Toronto</i>)
6:00 pm –7:30 pm	109.13 — The MMA/TDA Virtual Observatory	Rita Sambruna, (<i>NASA GSFC</i>)
6:00 pm –7:30 pm	109.14 — Calculating the gamma-ray luminosity from neutron star mergers' jets	Haley Steuber, (<i>California State University, Sacramento</i>)
6:00 pm –7:30 pm	109.15 — Multi-wavelength Study of PeVatron Candidate Pulsar Wind Nebulae	Jooyun Woo, (<i>Columbia Astrophysics Laboratory</i>)
6:00 pm –7:30 pm	109.16 — A Late-time Galaxy-targeted Search for the Radio Counterpart of GW190814	Kate Alexander, (<i>Northwestern University</i>)
Poster Session 110: Stellar/Compact		
6:00 pm –7:30 pm	110.01 — A long stare at Hercules X-1: investigating the vertical structure of an accretion disc wind	Peter Kosec, (<i>MIT Kavli Institute for Astrophysics and Space Research</i>)
6:00 pm –7:30 pm	110.03 — Machine Learning Classification of Variable Galactic X-ray Sources from Chandra Source Catalog	Hui Yang, (<i>George Washington University</i>)
6:00 pm –7:30 pm	110.04 — NICER Pulsation Search and Spectroscopy of the Original Black Widow Pulsar, PSR B1957+20	Mason Ng, (<i>MIT</i>)
6:00 pm –7:30 pm	110.05 — The Proper Motion of the Pulsar J1124--59 in the Galactic Supernova Remnant G292.0+1.8	Xi Long, (<i>Center for Astrophysics / Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.06 — High Resolution Spectroscopy of the Unusual Spectral Feature in the Central Compact Object PSR J0821-4300	Eric Gotthelf, (<i>Columbia University</i>)
6:00 pm –7:30 pm	110.07 — Multi-frequency observations of the PWN of Cannonball Pulsar PSR J0002+6216	Pratik Kumar, (<i>University of New Mexico</i>)
6:00 pm –7:30 pm	110.08 — The Long, Narrow Filament of PSR J2030+4415	Martijn De Vries, (<i>Stanford University</i>)
6:00 pm –7:30 pm	110.09 — A Large Population of Sub-threshold Gamma-ray Pulsars	Yuzhe Robert Song, (<i>CUNY Graduate Center & amNH</i>)
6:00 pm –7:30 pm	110.10 — Gamma-ray Eclipses and Orbital Modulation Transitions in the Candidate Redback 4FGL J1702.7-5655	Robin Corbet, (<i>University of Maryland- Baltimore County</i>)
6:00 pm –7:30 pm	110.11 — Chandra observations of the pulsar candidate 4FGL J1015.5-6030	Jeremy Hare, (<i>NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	110.12 — Spinning up and spinning down: the pulse period evolution of ultra-luminous X-ray pulsars	Felix Fuerst, (<i>ESA/ESAC</i>)
6:00 pm –7:30 pm	110.13 — A Possible Glitch in a Second Central Compact Object: PSR J0821-4300	Karen Perez, (<i>Columbia University</i>)
6:00 pm –7:30 pm	110.14 — NuSTAR Observations of PSR J1101-6101 and the Lighthouse Pulsar Wind Nebula	Noel Klingler, (<i>NASA-GSFC / UMBC</i>)

6:00 pm –7:30 pm	110.15 — “The Goose” Pulsar Wind Nebula of PSR J1016-5857 in X-rays and Radio: The Birth of a Plerion	Noel Klingler, <i>(NASA-GSFC / UMBC)</i>
6:00 pm –7:30 pm	110.16 — Global Kinetic Modeling of the Intrabinary Shock in Spider Pulsars	Jorge Cortes, <i>(Columbia University)</i>
6:00 pm –7:30 pm	110.18 — On The Stellar Wind Of The Wolf-Rayet Star in IC 10 X-1	Sayantana Bhattacharya, <i>(University of Massachusetts, Lowell)</i>
6:00 pm –7:30 pm	110.19 — The Wiki Catalog of High-Mass X-Ray Binaries	Cody Cox, <i>(Georgia College and State University)</i>
6:00 pm –7:30 pm	110.21 — Investigating the physical origin of X-ray variability in HMXBS with NuSTAR	Pragati Pradhan, <i>(MIT Kavli Institute for Astrophysics and Space Research)</i>
6:00 pm –7:30 pm	110.22 — Low kick velocities among HMXBs in the SMC confirmed with the spatial correlation function	Arash Bodaghee, <i>(GCSU)</i>
6:00 pm –7:30 pm	110.24 — StrayCats: A catalog of NuSTAR Stray Light Observations	Brian Grefenstette, <i>(California Institute of Technology)</i>
6:00 pm –7:30 pm	110.27 — Random Angular Momentum in Convection: Implications for Supergiant Collapse to Form Black Holes	Andrea Antoni, <i>(University of California, Berkeley)</i>
6:00 pm –7:30 pm	110.28 — Neutron Star Crustal Deformation Limits for Next-Generation Gravitational-Wave Detectors	Chloe Hess, <i>(Carnegie Mellon University)</i>
6:00 pm –7:30 pm	110.29 — Magnetic-Driving Of Polar UFOs In MAXI J1348-630	Keigo Fukumura, <i>(James Madison University)</i>
6:00 pm –7:30 pm	110.30 — Jet Formation in General-Relativistic, Magnetized Bondi-Hoyle-Lyttleton Accretion	Nick Kaaz, <i>(Northwestern University)</i>
6:00 pm –7:30 pm	110.31 — Short and Long GRBs with Simultaneous Thermal and Non-Thermal Emission Signatures: Laboratories for Studying the Dynamics of Relativistic Jets.	Sylvain Guiriec, <i>(George Washington University / NASA Goddard Space Flight Center)</i>
6:00 pm –7:30 pm	110.33 — UNDERSTANDING THE PROPERTIES OF X-RAY BINARY JETS WITH THE MODERN LOW-FREQUENCY RADIO INTERFEROMETERS	Jaiverdhan Chauhan, <i>(Montana State University)</i>
6:00 pm –7:30 pm	110.34 — Evolution of accretion disc reflection spectra due to a Type I X-ray burst	Julia Speicher, <i>(Georgia Institute of Technology)</i>
6:00 pm –7:30 pm	110.35 — Low-Frequency QPOs as Coronal Normal Modes.	Vanessa Lopez-Barquero, <i>(University of Cambridge)</i>
6:00 pm –7:30 pm	110.37 — Understanding the non-linearity of Quasi-Periodic Oscillations through dynamical transitions	Kavitha Arur, <i>(Georgia Institute of Technology)</i>
6:00 pm –7:30 pm	110.38 — NICER reverberation lags in black hole low-mass X-ray binaries	Jingyi Wang, <i>(MIT)</i>
6:00 pm –7:30 pm	110.40 — Origin and Interpretation of Spectral Lags in GRB Prompt Emission with Multiple Components	Alyson Joens, <i>(George Washington University)</i>
6:00 pm –7:30 pm	110.41 — A New Source of X-ray Time Lags in Accreting Black Holes	Javier Garcia, <i>(Caltech)</i>
6:00 pm –7:30 pm	110.42 — A Spectroscopic Angle on Central Engines in Accreting Neutron Stars	Nicolas Trueba, <i>(University of Michigan, Ann Arbor)</i>
6:00 pm –7:30 pm	110.43 — Accretion onto compact object through stationary shock: effects of General Relativity	Suman Kumar Kundu, <i>(Syracuse University)</i>
6:00 pm –7:30 pm	110.45 — Radius Constraints from NICER-NuSTAR observations of the NS LMXB Cygnus X-2	Renee Ludlam, <i>(California Institute of Technology)</i>

6:00 pm –7:30 pm	110.47 — Phase-resolved Spectropolarimetric Models of Magnetar Hard X-ray Emission with QED Photon Splitting Attenuation	Zorawar Wadiasingh, (<i>University of Maryland College Park / NASA Goddard Space Flight Center</i>)
6:00 pm –7:30 pm	110.48 — Hard X-ray Opacities in the Twisted Magnetospheres of Magnetars	Kun Hu, (<i>Rice University</i>)
6:00 pm –7:30 pm	110.49 — Detailed Phase Resolved Spectroscopy of the Persistent Magnetar 1RXS J170849.0-400910	Rachael Stewart, (<i>George Washington University</i>)
6:00 pm –7:30 pm	110.50 — Hydrodynamics of stellar-mass black hole tidal disruption events	Kyle Kremer, (<i>Caltech/Carnegie Observatories</i>)
6:00 pm –7:30 pm	110.51 — Hunting Pulsar Wind Nebulae with the Fermi-LAT	Jordan Eagle, (<i>Harvard & Smithsonian Center for Astrophysics</i>)
6:00 pm –7:30 pm	110.52 — X-ray observations of the accreting pulsar GX 301-2 during a spin-up episode	Hannah McCall, (<i>Universitaet Bonn</i>)
6:00 pm –7:30 pm	110.53 — 4U 1543-47: The Brightest Black Hole X-ray Binary Observed by NICER and NuSTAR Yet	Riley Connors, (<i>California Institute of Technology</i>)
6:00 pm –7:30 pm	110.54 — POSYDON: A binary population synthesis code based on MESA	Jeffrey Andrews, (<i>Northwestern University</i>)
6:00 pm –7:30 pm	110.55 — X-ray Source Populations in NGC 3532 and Other Intermediate Age Star Clusters	Steven Chen, (<i>George Washington University</i>)
6:00 pm –7:30 pm	110.56 — Exploring the Spin Distribution of Stellar Mass Black Holes	Paul Draghis, (<i>University of Michigan</i>)
6:00 pm –7:30 pm	110.57 — Self-Consistent Disk-Reflection Analysis of the X-ray Binary Black Hole Candidate MAXIJ1813-095 with NICER, Swift, Chandra, and NuSTAR	Santi Ubach, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.58 — Target-Projectile Interaction model for describing spectral line emission following charge exchange at low interaction energies	Ming Gu, (<i>UC Berkeley</i>)
6:00 pm –7:30 pm	110.59 — Plasmoid ejection by Alfvén waves and the fast radio bursts from SGR 1935+2154	Yajie Yuan, (<i>Flatiron Institute</i>)
6:00 pm –7:30 pm	110.60 — Studying Type-I X-ray bursts with NuSTAR	Sean Pike, (<i>Caltech</i>)
6:00 pm –7:30 pm	110.62 — Coronal X-ray Emission from the MUSCLES/MegamUSCLES Sample of Nearby, Low-Mass, Exoplanet Host Stars	Alexander Brown, (<i>University of Colorado</i>)
6:00 pm –7:30 pm	110.63 — X-Ray Transits of the Exoplanet HD189733Ab	Joseph Hall, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.64 — Five new hot Jupiters investigated with Swift-UVOT	Lia Corrales, (<i>University of Michigan</i>)
6:00 pm –7:30 pm	110.65 — A SmallSat to Study the Structure and Evolution of ExoJupiter Atmospheres (SEEJ)	Scott Wolk, (<i>SAO</i>)
6:00 pm –7:30 pm	110.66 — The Quiet Sun: Synchrotron Emission from Galactic Cosmic Rays as a New Component	Elena Orlando, (<i>University of Trieste</i>)
6:00 pm –7:30 pm	110.67 — Observation and Origin of the Hard Non-thermal X-ray Emission from Jupiter’s Aurorae	Shifra Mandel, (<i>Columbia University</i>)
6:00 pm –7:30 pm	110.69 — Using NuSTAR stray light to extend the baseline for SMC X-1’s spin and orbital behavior	McKinley Brumback, (<i>California Institute of Technology</i>)
6:00 pm –7:30 pm	110.70 — Reflection modeling of the transient black hole X-ray binary MAXI J1803-298 with NuSTAR	Benjamin Coughenour, (<i>UC Berkeley/SSL</i>)

6:00 pm –7:30 pm	110.71 — X-Ray Binaries in the ZTF Alert Stream	David Wang, (<i>University of Washington</i>)
6:00 pm –7:30 pm	110.72 — Expansion of the SNR 0509-67.5	Benson Guest, (<i>UMCP/NASA GSFC/CRESST II</i>)
6:00 pm –7:30 pm	110.73 — Chandra Legacy Observation of LMC N132D: First Results	Paul Plucinsky, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.74 — Analysis Pipeline Tools and Discrete Source Imaging Capabilities for the Compton Spectrometer and Imager Small Explorer (COSI-SMEX) Telescope	Jarred Roberts, (<i>UC San Diego</i>)
6:00 pm –7:30 pm	110.75 — Comparing Binary Pulsar Properties in the Field and in Globular Clusters	Rachel Zhang, (<i>Northwestern University</i>)
6:00 pm –7:30 pm	110.76 — A stellar-mass black hole in a supernova remnant	Mayura Balakrishnan, (<i>University of Michigan</i>)
6:00 pm –7:30 pm	110.78 — Fast Spectroscopy And Spectral-Timing Mapping of Bright Black Hole X-ray Binaries with NICER	James F Steiner, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.79 — The Astrophysics of Binary Radio Pulsars in the Era of CHIME	Emmanuel Fonseca, (<i>West Virginia University</i>)
6:00 pm –7:30 pm	110.80 — A Multi Domain Study of Major Flaring in the Microquasar Cygnus X-3	Michael McCollough, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.81 — Magnetar outburst deciphered under the lens of NICER	George Younes, (<i>NASA/GSFC</i>)
6:00 pm –7:30 pm	110.83 — A Robust Interpretation of the Fermi Pulsar Phenomenology	Constantinos Kalapotharakos, (<i>University of Maryland, College Park</i>)
6:00 pm –7:30 pm	110.85 — Understanding the Pulsar Multipolar Field Structure through NICER and Fermi data	Constantinos Kalapotharakos, (<i>University of Maryland, College Park</i>)
6:00 pm –7:30 pm	110.86 — A Multi-Mission Catalogue of Ultraluminous X-ray Source Candidates	Dom Walton, (<i>University of Hertfordshire</i>)
6:00 pm –7:30 pm	110.87 — Dynamic modeling and virtual-reality exploration of the X-ray emission and accretion flow in the Galactic center from colliding stellar winds	Christopher Russell, (<i>University of Delaware</i>)
6:00 pm –7:30 pm	110.88 — Vela pulsar from hard X-ray to GeV gamma-rays: energy-resolved lightcurves and phase-resolved spectra	Oleg Kargaltsev, (<i>George Washington University</i>)
6:00 pm –7:30 pm	110.89 —NICER Spectroscopy of Outflows and Obscuration in GRS 1915+105	Joey Neilsen, (<i>Villanova University</i>)
6:00 pm –7:30 pm	110.90 — Radiative Relativistic MHD Simulations of Neutron Star Column Accretion in Cartesian Geometry	Lizhong Zhang, (<i>University of California, Santa Barbara</i>)
6:00 pm –7:30 pm	110.91 — GRMHD Simulations of Misaligned and Truncated Accretion Disks	Matthew Liska, (<i>Harvard University</i>)
6:00 pm –7:30 pm	110.92 — Mapping the X-ray variability curves of GRS 1915+105 with machine learning	Benjamin Ricketts, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm –7:30 pm	110.93 — Constraining the Spin and Inclination of the Maximal Kerr Black Hole 4U1957+11 Using Simultaneous NICER and NuSTAR Observations	Erin Barillier, (<i>Dept. of Physics, Washington University in St. Louis</i>)
6:00 pm – 7:30 pm	110.94 — The X-ray Binary Population of the Galactic Center as Revealed Through Decades of Observations	Kaya Mori, (<i>Columbia University</i>)

6:00 pm – 7:30 pm	110.95 — Models for the X-Ray Emission of Type Ia Supernova Remnants in Different Circumstellar Environments	Travis Court, (<i>University of Pittsburgh</i>)
6:00 pm – 7:30 pm	110.96 — Identifying the Origins of Gamma-Ray Emission from the Cygnus Cocoon with Swift-XRT	David Guevel, (<i>University of Wisconsin, Madison</i>)
6:00 pm – 7:30 pm	110.97 — Collisionless black hole accretion	Alisa Galishnikova, (<i>Princeton University</i>)
6:00 pm – 7:30 pm	110.98 — Competitive X-Ray and Optical Cooling in the Collisionless Shocks of WR 140	Andrew Pollock, (<i>University of Sheffield</i>)
6:00 pm – 7:30 pm	110.99 — Dynamic modeling of the X-ray spectra and line profiles for the massive-star binary eta Carinae	Christopher Russell, (<i>University of Delaware</i>)
6:00 pm – 7:30 pm	110.100 — High-energy Transmission Grating Spectroscopy and 3D Wind Shock Simulations of the Magnetic Massive Star theta1 Orionis C	Marc Gagne, (<i>West Chester University</i>)
6:00 pm – 7:30 pm	110.101 — The Nature of X-rays from Young Stellar Objects in the Orion Nebula Cluster - A Chandra HETG Legacy Project	Norbert Schulz, (<i>MIT</i>)
6:00 pm – 7:30 pm	110.102 — X-Ray Stellar Cycles at Low Rossby Numbers	Zackery Irving, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
6:00 pm – 7:30 pm	110.103 — Propagation of a strong fast wave in the magnetosphere of a neutron star	Yuran Chen, (<i>Colorado University Boulder</i>)
6:00 pm – 7:30 pm	110.104 — Energy Dissipation and Gamma-ray Emission in Young Pulsars	Hayk Hakobyan, (<i>Princeton Plasma Physics Laboratory</i>)
6:00 pm – 7:30 pm	110.106 — The Neutron Star in Puppis A: Atomic Photospheric Spectroscopy at Last?	Frits Paerels, (<i>Columbia Univ.</i>)
6:00 pm – 7:30 pm	110.107 — The Photospheric X-ray Spectrum of the Neutron Star in Puppis A	John Groger, (<i>Columbia University</i>)
6:00 pm – 7:30 pm	110.108 — Nustar's view on the transient type B QPO of MAXI J1348-630	Federico Vincentelli, (<i>Villanova University</i>)
Poster Session 111: Time Domain Astrophysics		
6:00 pm – 7:30 pm	111.01 — A Search For Relativistic Explosions in a Sample of ZTF BL-Ic SNe	Gokul Srinivasaragavan, (<i>University of Maryland College Park</i>)
6:00 pm – 7:30 pm	111.02 — Optical darkness in short-duration gamma-ray bursts	Caden Gobat, (<i>George Washington University</i>)
6:00 pm – 7:30 pm	111.03 — Calculating Radio Transient Rates Using Realistic Simulations	Sarah Chastain, (<i>George Washington University</i>)
6:00 pm – 7:30 pm	111.04 — A luminous X-ray transient in SDSS J143359.16+400636.0: a likely tidal disruption event	Murray Brightman, (<i>California Institute of Technology</i>)
6:00 pm – 7:30 pm	111.05 — Demystifying the Prompt Emission of Gamma Ray Bursts	Tyler Parsotan, (<i>UMBC/Goddard/CRESST</i>)
6:00 pm – 7:30 pm	111.06 — A One-Off Fast Radio Burst Localized to its Host Galaxy using VLBI with CHIME/FRB	Calvin Leung, (<i>MIT</i>)
6:00 pm – 7:30 pm	111.07 — Searching for X-ray Binaries with Large-Scale Optical Variability Surveys	Eric Bellm, (<i>University of Washington</i>)
6:00 pm – 7:30 pm	111.10 — Stellar Variability in the Orion Nebular Cluster Region from the Chandra HETG Very Large Program Dataset	Joy Nichols, (<i>Center for Astrophysics Harvard & Smithsonian</i>)

6:00 pm – 7:30 pm	111.12 — GALI (Gamma-ray Burst Localizing Instrument) A New GRB Detector Concept	Roi Rahin, (<i>Technion - Israel Institute of Technology</i>)
6:00 pm – 7:30 pm	111.13 — The Fermi-LAT Light Curve Repository	Janeth Valverde, (<i>UMBC/NASA GSFC</i>)
6:00 pm – 7:30 pm	111.14 — The Observable X-Ray Signatures of Precessing Accretion Disks Predicted by the Post-Process Raytracing of General Relativistic Magnetohydrodynamical Simulations	Andrew West, (<i>Washington University in St. Louis</i>)
6:00 pm – 7:30 pm	111.15 — Searching for axion-like particles from core-collapse supernovae with Fermi LAT's low energy technique	Milena Crnogorcevic, (<i>University of Maryland, College Park/NASA Goddard</i>)
6:00 pm – 7:30 pm	111.16 — A Mechanism for Interacting Supernovae and Rebrightening without Narrow Line Emission	Eric Coughlin, (<i>Syracuse University</i>)
6:00 pm – 7:30 pm	111.17 — Ultra-long Period Magnetars and the Low-Twist Magnetar Model of FRBs	Zorawar Wadiasingh, (<i>University of Maryland College Park / NASA Goddard Space Flight Center</i>)
6:00 pm – 7:30 pm	111.18 — Strong Lensing of Confined Magnetar Burst Fireballs	Zorawar Wadiasingh, (<i>University of Maryland College Park / NASA Goddard Space Flight Center</i>)
6:00 pm – 7:30 pm	111.19 — Swift and the Future of Time Domain Astronomy	Jamie Kennea, (<i>Pennsylvania State University</i>)
6:00 pm – 7:30 pm	111.20 — Shadows at Night, and Exposed to the Light: Type-Ia Supernova Classification Using Gamma-Ray Light Curves	Richard Miller, (<i>Johns Hopkins University Applied Physics Laboratory</i>)
6:00 pm – 7:30 pm	111.21 — The STROBE-X Mission Concept and Its Science Potential	Thomas MacCarone, (<i>Texas Tech University</i>)
6:00 pm – 7:30 pm	111.22 — Probing Electron Acceleration in Gamma-Ray Burst Afterglows	Alexander van der Horst, (<i>George Washington University</i>)
6:00 pm – 7:30 pm	111.23 — The La Silla QUEST Optical Variability Survey: Optical Cross-Matches to Chandra and XMM Source Catalogs	Paolo Coppi, (<i>Yale University</i>)
6:00 pm – 7:30 pm	111.25 — XANDER: X-ray ANomaly DETector	Juan Martinez Galarza, (<i>Smithsonian Astrophysical Observatory</i>)
6:00 pm – 7:30 pm	111.26 — X-ray Transients and Transits Hidden in the Chandra Source Catalog	Amanda Chavez, (<i>San Diego State University</i>)
6:00 pm – 7:30 pm	111.27 — The Luminosity Function, Intrinsic Redshift Distribution, and Emission Timescale Distribution of Fermi-GBM GRBs From Collapsars	Rachel Hamburg, (<i>University of Alabama in Huntsville</i>)

TUESDAY, 15 March 2022

7:00 am – 6:00 pm, Registration

17th Floor/Coat Check

7:30 am – 8:30 am, HEAD Executive Breakfast (Invitation Only)

Parkview West – CL Floor

8:30 am – 10:00 am, Oral Session Session: 200 — Multi-Messenger and Time Domain Astronomy

Grand Ballroom – 17th Floor

8:30 am – 8:45 am	200.01 — The VERITAS Time-Domain Astrophysics Program	Deivid Ribeiro, (<i>Columbia University</i>)
8:45 am – 9:00 am	200.02 — Collapsars as Sites of r-process Nucleosynthesis	Shreya Anand, (<i>California Institute of Technology</i>)
9:00 am – 9:15 am	200.03 — The Fast Radio Burst Luminosity Function from the First CHIME/FRB Catalog	Kaitlyn Shin, (<i>MIT</i>)
9:15 am – 9:30 am	200.04 — Late-Time Radio Emission in Tidal Disruption Events (TDEs)	Yvette Cendes, (<i>Center for Astrophysics Harvard & Smithsonian</i>)
9:30 am – 9:45 am	200.05 — Gamma-ray Observations of Millisecond Pulsars Constrain the Low-frequency Gravitational Wave Background	Matthew Kerr, (<i>US Naval Research Laboratory</i>)
9:45 am – 10:00 am	200.06 — Ensemble Dynamical Classification of X-ray Binaries	Rebecca Phillipson, (<i>University of Washington</i>)
10:00 am – 10:30 am, am COFFEE BREAK and POSTER SESSION		
10:30 am – 12:00 pm, Special Session: 201 — eROSITA’s First View on Hot Baryons of the Universe Grand Ballroom, 17 th Floor		
10:30 am – 10:48am	201.01 — eROSITA on SRG	Andrea Merloni, (<i>MPE</i>)
10:48 am – 11:06am	201.02 — First results on Active Galactic Nuclei from eROSITA	Kirpal Nandra, (<i>Max Planck Institute for Extraterrestrial Physics</i>)
11:06 am – 11:24am	201.03 — Tracing Baryons in Clusters of Galaxies with eROSITA	Esra Bulbul, (<i>Max Planck Institute for Extraterrestrial Physics</i>)
11:24 am – 11:42am	201.04 — eROSITA Observations of Transient Sources	Joern Wilms, (<i>Friedrich-Alexander-Universitaet Erlangen-Nuernberg</i>)
11:42 am – 12:00 pm	201.05 — Highlights from the Mikhail Pavlinsky ART-XC telescope on board SRG	Alexander Lutovinov, (<i>Space Research Institute RAS (IKI RAS)</i>)
10:30 am – 12:00 pm, Special Session: 202 — Peta-electronvolt Cosmic Accelerators in the Milky Way Urban – 17 th Floor		
10:30 am – 10:45 am	202.01 — HAWC’s view of the highest-energy gamma-ray sky	Kelly Malone, (<i>Los Alamos National Laboratory</i>)
10:45 am – 11:00 am	202.02 — Highlights from the Tibet AS Gamma Experiment	Masato Takita, (<i>Institute for Cosmic Ray Research, the University of Tokyo</i>)
11:00 am – 11:15 am	202.03 — Highlights from the Large High Altitude Air Shower Observatory (LHAASO)	Hao Zhou, (<i>Shanghai Jiao Tong University</i>)
11:15–11:30 am	202.04 — Highlights from the Imaging Atmospheric Cherenkov Telescopes	Brian Humensky, (<i>University of Maryland</i>)
11:30–11:45 am	202.05 — A Fermi Large Area Telescope Survey of PeVatron Candidates	Matthew Kerr, (<i>US Naval Research Laboratory</i>)
11:45–12:00 pm	202.06 — PeVatron Sources and Candidates Observed by the Fermi Large Area Telescope	Zorawar Wadiasingh, (<i>University of Maryland College Park / NASA Goddard Space Flight Center</i>)
12:00 pm – 1:30 pm, NASA X-ray Science Interest Group (XR SIG)		

Frick – CL Floor		
12:00 pm – 1:30 pm, LUNCH (on your own)		
1:30 pm – 3:00 pm, Plenary Session 203 — Innovation Prize Talk I & II Grand Ballroom – 17 th Floor		
1:30 pm – 2:00 pm	203.01 — The Challenges of Developing a New Approach to High-Resolution X-Ray Spectroscopy	Richard Kelley, <i>(NASA Goddard Space Flight Center)</i>
2:00 pm – 2:30 pm	203.02 — XSPEC: Past, Present, and Future	Keith Arnaud, <i>(University of Maryland)</i>
3:00 pm – 4:30 pm, Plenary Session: 304 — Decadal & Probes Panel Grand Ballroom – 17 th Floor		
4:30 pm – 5:00 pm, PM COFFEE BREAK and POSTER SESSION		
5:00 pm – 6:30 pm, Special Session: 205 — 50 Years of Gamma-ray Observations at the Whipple Observatory Grand Ballroom – 17 th Floor		
5:00 pm – 5:18 pm	205.01 — The History of Gamma-Ray Astronomy at the Whipple Observatory	Paul T. Reynolds, <i>(Munster Technological University)</i>
5:18 pm – 5:36 pm	205.02 — Very-High-Energy Emission from the Crab Pulsar	Alice Harding, <i>(Los Alamos National Laboratory)</i>
5:36 pm – 5:54 pm	205.03 — Active Galaxies at Very High Energy	Eileen Meyer, <i>(UMBC)</i>
5:54 pm – 6:12 pm	205.04 — Very High-Energy Gamma Rays and Multi-Messenger Astrophysics	Ke Fang, <i>(University of Wisconsin-Madison)</i>
6:12 pm – 6:30 pm	205.05 — The Prototype Schwarzschild-Couder Telescope	Vladimir Vassiliev, <i>(University of California Los Angeles)</i>
5:00 pm – 6:30 pm, Special Session: 206 — Theoretical Advances in Tidal Disruption Events Urban – 17 th Floor		
5:00 pm – 5:18PM	206.01 — Tidal Disruption Disks Formed and Fed by Stream-Stream and Stream-Disk Interactions in Global GRHD Simulations	Zachary Andalman, <i>(Yale University)</i>
5:18PM – 5:36PM	206.02 — Exploring galactic nuclei with tidal disruption events	Brenna Mockler, <i>(UC Santa Cruz)</i>
5:36PM – 5:54PM	206.03 — Delayed Stream Crossing for TDEs by Spinning Black Holes	Wenbin Lu, <i>(Princeton University)</i>
5:54PM – 6:12PM	206.04 — Quasi-periodic Modulations following Nuclear Outbursts from Galaxies	Dheeraj Pasham, <i>(MIT)</i>
6:12PM – 6:30 pm	206.05 — Elevated Tidal Disruption Rates from the Formation of Eccentric Nuclear Disks	Tatsuya Akiba, <i>(University of Colorado Boulder)</i>
6:30 pm – 8:00 pm, Business Meeting Grand Ballroom – 17 th Floor		
WEDNESDAY, 16 March 2022		
7:00 am – 8:30 am, Early Career Breakfast Frick – CL Floor		
7:30 am – 6:00 pm, Registration		

17 th Floor Registration/Coat Check		
8:30 am – 10:00 am, Special Session: 300 — Dynamical Formation of Gravitational Wave Sources Urban – 17 th Floor		
8:30 am – 8:48 am	300.01 — Astrophysical Lessons from Gravitational-wave Catalogs	Maya Fishbach, (<i>Northwestern University</i>)
8:48 am – 9:06 am	300.02 — Modeling the Dynamics of Compact Objects in Globular Clusters	Kyle Kremer, (<i>Caltech/Carnegie Observatories</i>)
9:06 am – 9:24am	300.03 — Young Star Clusters: Shaping BBH Progenitors	Ugo Niccolo Di Carlo, (<i>Carnegie Mellon University</i>)
9:24 am – 9:42 am	300.04 — Gravitational waves and intermediate-mass black holes: the dawn of a new era	Giacomo Fragione, (<i>Northwestern University</i>)
9:42 am – 10:00 am	300.05 — One Channel to Rule Them All? Deciphering the Formation Pathways of Compact Object Mergers	Michael Zevin, (<i>University of Chicago</i>)
8:30 am – 10:00 am, Special Session: 301 — First Results and Future Prospects from the Imaging X-ray Polarization Explorer (IXPE) Grand Ballroom – 17 th Floor		
8:30 am – 8:52am	301.01 — The Imaging X-ray Polarimetry Explorer (IXPE) Mission Overview	Martin Weisskopf, (<i>NASA/MSFC</i>)
8:52 am – 9:14am	301.02 — The Imaging X-ray Polarimetry Explorer (IXPE) Observing Program and Status	Stephen O'Dell, (<i>NASA Marshall Space Flight Center</i>)
9:14 am – 9:36 am	301.03 — Prospects for IXPE Year 1 Observations of Galactic Sources	Roger W. Romani, (<i>Stanford University</i>)
9:36 am – 9:58 am	301.04 — Observations of Blazars and Radio Galaxies with IXPE	Alan Marscher, (<i>Boston University</i>)
10:00 am – 10:30 am, AM COFFEE BREAK and POSTER SESSION		
10:30 am – 12:00 pm, Oral Session: 302 — AGN II Grand Ballroom – 17 th Floor		
10:30 am – 10:45 am	302.01 — Resolving the AGN Torus Using Broadband X-ray and VLBI Observations	Mislav Balokovic, (<i>Yale University</i>)
10:45 am – 11:00 am	302.02 — The low-mass end of accreting supermassive black holes	Labani Mallick, (<i>California Institute of Technology</i>)
11:00 am – 11:15 am	302.03 — A deep, multi-epoch Chandra HETG study of the ionized outflow from NGC 4051	Anna Ogorzalek, (<i>NASA GSFC/UMCP</i>)
11:15 am – 11:30 am	302.04 — Evolution of a Relativistic Outflow and the X-ray Corona and in the Extreme Changing-Look AGN 1ES 1927+654	Megan Masterson, (<i>MIT</i>)
11:30 am – 11:45 am	302.05 — Search for TeV emission from a flux-limited sample of blazars with VERITAS	Manel Errando, (<i>Washington University in St Louis</i>)
11:45 am – 12:00 pm	302.06 — The evolution of dual AGN across cosmic time	Adi Foord, (<i>KIPAC, Stanford University</i>)
12:00 pm – 1:30 pm, NASA Gamma Ray Science Interest Group (GR SIG) Frick – CL Floor		
12:00 pm – 1:30 pm, LUNCH (on your own)		

1:30 pm – 3:00 pm, Oral Session: 204 — Missions and Instruments Grand Ballroom – 17 th Floor		
1:30 pm – 1:45 pm	204.01 — The Rockets for Extended-source X-ray Spectroscopy	Drew Miles, (<i>The Pennsylvania State University</i>)
2:00 pm – 2:15 pm	204.02 — The Next-Generation Hard X-ray Polarimeter XL-Calibur	Fabian Kislak, (<i>University of New Hampshire</i>)
2:15 pm – 2:30 pm	204.03 — BurstCube: A CubeSat for Gravitational Wave Counterparts	Alyson Joens, (<i>George Washington University</i>)
1:45 pm – 2:00 pm	204.04 — Glowbug, a telescope for gamma-ray bursts and other transients	Richard Woolf, (<i>US Naval Research Laboratory</i>)
2:30 pm – 2:45 pm	204.05 — Soft gamma-ray polarimetry with COSI	Hadar Lazar, (<i>University of California, Berkeley</i>)
2:45 pm – 3:00 pm	204.06 — AstroPix: Status and Outlook of Monolithic Active Pixel Silicon Sensors for Future Gamma-ray Telescopes	Amanda Steinhebel, (<i>NASA/GSFC</i>)
3:00 pm – 4:30 pm, Plenary Session: 303 — Mid-Career Prize Talk I & II Grand Ballroom – 17 th Floor		
3:00 pm – 3:30 pm	303.01 — Mapping neutron stars	Anna Watts, (<i>University of amsterdam</i>)
3:30 pm – 4:00 pm	303.02 — Relativistic Explosions Across the Universe	Stephen Cenko, (<i>NASA Goddard Space Flight Center</i>)
5:00 pm – 6:30 pm, Special Session: 305 — The Future is Here: Transient High-energy Astrophysics with Small Satellites Urban – 17 th Floor		
5:00 pm – 5:15 pm	305.01 — GALI a New Concept for Directional Detection of GRBs	Ehud Behar, (<i>Technion</i>)
5:15 pm – 5:30 pm	305.02 — The SpIRIT mission: Multiwavelength detection and follow-up of cosmic explosions with an Australian space telescope	Katie Auchettl, (<i>The University of Melbourne</i>)
5:30 pm – 5:45 pm	305.03 — Quick Ultra-Violet Kilonova surveyor (QUVIK)	Norbert Werner, (<i>Masaryk University</i>)
5:45 pm – 6:00 pm	305.04 — Searching for High Redshift Gamma Ray Bursts and X-ray transient events with the BlackCAT CubeSat	Abraham Falcone, (<i>Pennsylvania State University</i>)
6:00 pm – 6:15 pm	305.05 — Moon Burst Energetics All-sky Monitor: A Beyond Earth-orbit Gamma-ray Burst Detector for Multi-Messenger Astronomy	Michelle Hui, (<i>NASA MSFC</i>)
6:15 pm – 6:30 pm	305.06 — BurstCube: Mission Overview, Status, and Testing	Jacob Smith, (<i>UMBC/CRESST/NASA/GSFC</i>)
5:00 pm – 6:30 pm, Special Session: 306 — Theory and Observations of Accretion Disks around Compact Objects Grand Ballroom – 17 th Floor		
5:00 pm – 5:22 pm	306.01 — Recent Advances in AGN Reverberation Mapping	Erin Kara, (<i>MIT</i>)
5:22PM – 5:44pm	306.02 — An observational overview of black hole X-ray binaries	Riley Connors, (<i>California Institute of Technology</i>)

5:44PM – 6:06pm	306.03 — Radiation GRMHD simulations of radiatively efficient black hole accretion flows	Jason Dexter, (<i>University of Colorado Boulder</i>)
6:06 pm – 6:18 pm	306.04 — Disk tearing leads to High and Low frequency quasi-periodic oscillations in a GRMHD simulation of a tilted accretion disk	Gibwa Musoke, (<i>Anton Pannekoek Institute for Astronomy, University of amsterdam</i>)
6:18 pm – 6:30 pm	306.05 — Magnetically supported disks	Nicolas Scepi, (<i>JILA, CU Boulder</i>)
6:30 PM – 8:00 pm, The Advanced X-ray Imaging Satellite (AXIS) Vandergrift – CL Floor		
6:30 pm – 8:00 pm, POSTER VIEWING & HAPPY HOUR		
THURSDAY, 17 MARCH 2022		
7:30 am – 4:30 PM, Registration 17 th Floor Registration/Coat Check		
8:30 am – 10:00 am, Oral Session: 400 — ISM/Galaxies/Clusters Grand Ballroom – 17 th Floor		
8:30 am – 8:45 am	400.01 — Piercing the Galactic Bubbles: Thermal Structure using Suzaku Data	Anjali Gupta, (<i>Columbus State Community College</i>)
8:45 am – 9:00 am	400.02 — An X-ray Emission Study of the Milky Way Halo's Clumpy Distribution	Jesse Bluem, (<i>University of Iowa</i>)
9:00 am – 9:15 am	400.03 — Characterizing the Hard X-ray Binary Population of the Disk of M31	Daniel Wik, (<i>University of Utah</i>)
9:15 am – 9:30 am	400.04 — Testing the Limits of AGN Feedback in the Most Rapidly Star Forming Central Cluster Galaxies	Michael Calzadilla, (<i>MIT Kavli Institute for Astrophysics and Space Research</i>)
9:30 am – 9:45 am	400.05 — Scaling Relations and X-ray Observables of Galaxy Clusters and Groups Detected in the eFEDS Field	Yunus Emre Bahar, (<i>Max Planck Institute for Extraterrestrial Physics</i>)
9:45 am – 10:00 am	400.06 — Acoustic waves and turbulence as energy carriers in a viscous intracluster medium	Prakriti PalChoudhury, (<i>Institute of Astronomy</i>)
10:00 am – 10:30 am, AM COFFEE BREAK & POSTER VIEWING		
10:30 am – 12:00 pm, Special Session: 401 — What Do We Learn from Prompt Observations of Transient Astrophysical Events Urban – 17 th Floor		
10:30 am – 10:48 am	401.01 — Probing Supernovae and their Progenitors from High-Energy Emission	Chris Fryer, (<i>Los Alamos National Laboratory</i>)
10:48am – 10:48 am	401.02 — (Withdrawn) Early observations of transients to probe late stages of stellar evolution	Raffaella Margutti, (<i>UC Berkeley</i>)
10:48 am – 11:06 am	401.03 — A UV Window on Transients with ULTRASAT	Iair Arcavi, (<i>Tel Aviv University</i>)
11:06 am– 11:24 am	401.04 — Stellar death astrophysics through extensive and panchromatic observations	Maryam Modjaz, (<i>New York University</i>)
11:24 am – 11:42 am	401.05 — Aspherical Shock Breakout: Observational Signatures	Chris Irwin, (<i>RESCEU, University of Tokyo</i>)
11:42 am – 12:00 pm	401.06 — Peering into the multi-messenger maelstrom with rapid observations of neutron star mergers	Eleonora Troja, (<i>University of Tor Vergata</i>)

10:30 am – 12:00 pm, Special Session: 402 — Science with XRISM: Mission Status Update Grand Ballroom – 17 th Floor		
11:00 am – 11:30 am	402.01 — Overview of the X-Ray Imaging and Spectroscopy Mission	Rich Kelley, <i>(NASA Goddard Space Flight Center)</i>
10:30 am – 11:00 am	402.02 — Science with XRISM	Brian Williams, <i>(NASA GSFC)</i>
11:30 am – 11:45 am	402.03 — The XRISM Guest Observer and Early Release Science Programs	Robert Petre, <i>(NASA Goddard Space Flight Center)</i>
11:45am – 12:00 pm	402.04 — The XRISM Guest Scientist Program	Valerie Connaughton, <i>(NASA Headquarters)</i>
12:00 pm – 1:30 pm, LUNCH (on your own)		
1:30 pm – 3:00 pm, Special Session: 403 — Implications and Tracers of the Energetic Processes at Cosmic Dawn Urban – 17 th Floor		
1:30 pm – 1:45 pm	403.01 — Are the Newly-Discovered $z \sim 13$ Drop-out Sources Starburst Galaxies or Quasars?	Fabio Pacucci, <i>(Harvard University)</i>
1:45 pm – 2:00 pm	403.02 — Elevated Hot Gas and High-Mass X-ray Binary Emission in Low Metallicity Galaxies: Implications for Nebular Ionization and Intergalactic Medium Heating in the Early Universe	Bret Lehmer, <i>(University of Arkansas, Fayetteville)</i>
2:00 pm – 2:15 pm	403.03 — Exploring the Production of High-Energy Photons with Reionization-Era Analogue Galaxies	Grace Olivier, <i>(Ohio State University)</i>
2:15 pm – 2:30 pm	403.04 — Lyman Continuum emission in the youngest galaxies: the role of X-ray binaries and Low Luminosity AGN.	Andrea Prestwich (provisional), <i>(Center for Astrophysics, Harvard-Smithsonian)</i>
2:30 pm – 2:45 pm	403.05 — Accreting Compact Objects at Cosmic Dawn	Philip Kaaret, <i>(University of Iowa)</i>
2:45 pm – 3:00 pm	403.06 — High ionization emission line galaxies near and far: A reckoning of all the energetic processes	Antara Basu-Zych, <i>(NASA Goddard Space Flight Center)</i>
1:30 pm – 3:00 pm, Special Session: 404 — MeV Gamma Rays and Multi-messenger Astronomy Grand Ballroom – 17 th Floor		
1:30 pm – 1:45 pm	404.01 — The Compton Spectrometer and Imager (in MeV session)	John Tomsick, <i>(UC Berkeley/SSL)</i>
1:45 pm – 2:00 pm	404.02 — An MeV Perspective of the 2020 Decadal Survey	Carolyn Kierans, <i>(NASA/GSFC)</i>
2:00 pm – 2:15 pm	404.03 — <i>a</i> MEGO-X Mission Overview	Regina Caputo, <i>(NASA Goddard Space Flight Center)</i>
2:15 pm – 2:30 pm	404.04 — The Advanced Particle-astrophysics Telescope (APT)	James Buckley, <i>(Washington Univ.)</i>
2:30 pm – 2:45 pm	404.05 — Scientific potentials for MeV polarimetry	Haocheng Zhang, <i>(NASA GSFC)</i>
2:45 pm – 3:00 pm	404.06 — Past, Present & Future of the Astrophysical Multimessenger Observatory Network	Hugo Alberto Ayala Solares, <i>(Pennsylvania State University)</i>
3:00 pm – 3:45 pm, Plenary Session: 405 — Early Career Prize Talk Grand Ballroom – 17 th Floor		

3:00 pm – 3:45 pm	405.01 — Using Supernova Remnants to Probe Explosions, Progenitors, and Compact Object Formation	Laura Lopez, (<i>Ohio State University</i>)
3:45 pm – 5:15 pm, Oral Session: 406 — Stellar/Compact II Grand Ballroom – 17 th Floor		
3:45 pm – 4:00 pm	406.01 — A Study of the 2020 Type II Giant Outburst of the Be X-ray Binary 1A 0535+262 with NICER, NuSTAR and the Fermi Gamma-ray Burst Monitor	Joel Coley, (<i>Howard University</i>)
4:00 pm – 4:15 pm	406.02 — Why Lense-Thirring solid-body precession cannot produce the LFQPOs observed in X-ray binaries	Gregoire Marcel, (<i>Institute of Astronomy, Cambridge University</i>)
4:15 pm – 4:30 pm	406.03 — Cold-chain Comptonization in black hole coronae	Navin Sridhar, (<i>Columbia University</i>)
4:30 pm – 4:45 pm	406.04 — New models of photospheric radius expansion bursts	Simon Guichandut, (<i>McGill University</i>)
4:45 pm – 5:00 pm	406.05 — Discovery of a new Galactic symbiotic X-ray binary directly associated with intense mass loss episodes of a heavily obscured Mira variable	Kishalay De, (<i>MIT</i>)
5:00 pm – 5:15 pm	406.06 — Beyond the lamppost model: the impact of coronal extension on X-ray reverberation mapping.	Matteo Lucchini, (<i>Massachusetts Institute of Technology</i>)
5:30 pm – 6:30 pm, Closing Reception Bob and Dolores Hope – Mezzanine		