

From Chandra to Lynx Program

Tuesday, Aug 8th 2017 - Chairs: Laura Lopez (morning) & Fred Baganoff (afternoon)

- 09:00-09:10 **Welcome and Status of Chandra** - Belinda Wilkes (SAO)
- 09:10-09:30 **Status of Lynx** - Alexey Vikhlinin (SAO)
- 09:30-10:00 **X-rays and the galaxy cluster landscape for astrophysics and cosmology** - *Invited*: Steve Allen (Stanford University)
- 10:00-10:15 **Probing the Detailed Physics of Galaxy Cluster Plasmas with Lynx: Predictions from Mock Observations** - John ZuHone (CfA)
- 10:15-10:30 **Hydrodynamical Cosmological Simulations of Galaxy Cluster Outskirts** - Camille Avestruz (University of Chicago)
- 10:30-11:00 [Coffee Break](#)
- 11:00-11:30 **From the Chandra Deep Fields to Lynx** - *Invited*: William Brandt (Penn State University)
- 11:30-11:45 **Resolving the hidden connections between black holes, galaxies, and halos with Chandra and Lynx** - Ryan Hickox (Dartmouth College)
- 11:45-12:00 **A 5 per cent determination of the local black hole occupation fraction** - Elena Gallo (University of Michigan)
- 12:00-12:15 **Identifying First X-ray Sources** - Anastasia Fialkov (Harvard University ITC)
- 12:15-12:30 **New Measurement of the joint unresolved CIB vs CXB fluctuations: a preview of Lynx sources** - Nico Cappelluti (Yale University)
- 12:30-14:00 [Lunch](#)
- 14:00-14:30 **Missing Baryons Around Galaxies And Through The Universe** - *Invited*: Joel Bregman (University of Michigan)
- 14:30-14:45 **Probing the Lifecycle of Nearby Galactic Nuclei via High-resolution X-ray Imaging and Spectroscopy** - Q. Daniel Wang (University of Massachusetts)
- 14:45-15:00 **The XMM-Newton View of the $z < 0.5$ Warm Hot Intergalactic Medium** - Fabrizio Nicastro (SAO / INAF-OAR)
- 15:00-15:30 **High Resolution Imaging and Gratings in Concert: An abundance of cutting edge science that can only be done with Lynx** - *Invited*: Lia Corrales (University of Wisconsin - Madison)
- 15:30-16:00 [Coffee Break](#)
- 16:00-16:15 **Measuring the Dust and Gas Phases in the Milky Way** - Norbert S. Schulz (MIT)
- 16:15-16:30 **Diverse Origin of Galactic Center X-ray Filaments** - Shuo Zhang (MIT Kavli Institute)
- 16:30-17:00 **An Exploration of The X-ray Emission from Normal Galaxies in the Early Universe with Lynx** - *Invited*: Bret Lehmer (University of Arkansas)
- 17:00-17:15 **Beyond Chandra: Accreting binary populations in the era of Lynx** - Andreas Zezas (FORTH/IESL; CfA)
- 17:15-17:30 **Lynx Data Analysis Challenges** - Vinay Kashyap (CXC/CfA)

Wednesday, Aug 9th 2017 - Chairs: Dave Pooley (morning) & Scott Wolk (afternoon)

- 09:00-09:30 **Observing Supernova Remnants with Lynx** - *Invited*: Laura Lopez (Ohio State University)
- 09:30-09:45 **Probing Mass Loss in Supernova Progenitors with Lynx** - Dan Patnaude (SAO)
- 09:45-10:00 **Constraining the Dense Matter Equation of State with Lynx Observations of Globular Cluster X-ray Binaries** - Slavko Bogdanov (Columbia University)
- 10:00-10:30 **Massive molecular gas flows and AGN feedback in galaxy clusters** - *Invited*: Helen Russell (Institute of Astronomy, Cambridge)
- 10:30-11:00 [Coffee Break](#)
- 11:00-11:30 **Stellar Coronal Studies at High Spectral Resolution with Lynx** - *Invited*: Nancy Brickhouse (SAO)
- 11:30-11:45 **What can Lynx do for coronal physics?** - Jeremy Drake (SAO)
- 11:45-12:00 **Observational signatures of self-consistent 3D CME-flare models** - Sofia Moschou (CfA)
- 12:00-12:15 **Observations of Stellar Clusters From Chandra to Lynx** - Scott Wolk (CfA)

- 12:15-12:30 **High Resolution X-ray Spectroscopy and Star Formation: HETG Observations of the Pre-Main Sequence Stellar Cluster IC 348** - David Principe (*MIT*)
- 12:30-14:00 [Lunch](#)
- 14:00-14:30 **The roles of host star XUV emission on exoplanet habitability and physical processes in stellar coronae and the ISM** - [Invited](#): Jeffrey Linsky (*JILA/University of Colorado*)
- 14:30-14:45 **From ChanPlaNS to Lynx** - Rodolfo Montez (*SAO*)
- 14:45-15:00 **Winds of Massive Stars: Line Profiles and Variability** - David Huenemoerder (*MIT*)
- 15:00-15:15 **Chandra Implications for Future Calorimeter Observations of Starburst Feedback** - Andrew Ptak (*NASA/GSFC*)
- 15:15-15:30 **Spatially Resolving AGN in Transitioning Galaxies with Chandra** - Lauranne Lanz (*Dartmouth College*)
- 15:30-16:00 [Coffee Break](#)
- 16:00-16:30 **Athena: Science Prospects and Mission Status** - [Invited](#): Laura Brenneman (*SAO*)
- 16:30-17:00 **AGN Feedback Lessons from Chandra Observations of Clusters of Galaxies** - [Invited](#): Megan Donahue (*Michigan State University*)
- 17:00-17:15 **Analyzing Cocoon Shocks in Radio Galaxies: Predictions for Lynx** - Bradford Snios (*CfA*)
- 17:15-17:30 **X-ray insights into the earliest stages of a radio source evolution** - Malgosia Sobolewska (*SAO/CXC*)

Thursday, Aug 10th 2017 - Chair: Doug Swartz

- 09:00-09:30 **Observing the First Galaxy Clusters with Lynx** - [Invited](#): Michael McDonald (*MIT*)
- 09:30-09:45 **Cluster AGN Topography Survey** - Emil Noordeh (*Stanford University*)
- 09:45-10:00 **The Impact of Environment on Galaxy Cluster Outskirts** - Scott Randall (*CfA*)
- 10:00-10:30 **Lessons learned from Chandra AGN surveys and what's next** - [Invited](#): Francesca Civano (*SAO*)
- 10:30-11:00 [Coffee Break](#)
- 11:00-11:15 **Harder, Better, Faster, Stronger: Mapping Extended Line Emission from AGN above 1 keV** - Peter Maksym (*CfA*)
- 11:15-11:30 **Prospects for Large-scale Jets with Lynx** - Eileen Meyer (*University of Maryland, Baltimore County*)
- 11:30-12:00 **Physical properties of the highest redshift supermassive black holes** - [Invited](#): Benny Trakhtenbrot (*ETH Zurich*)
- 12:00-13:00 [Discussion](#)