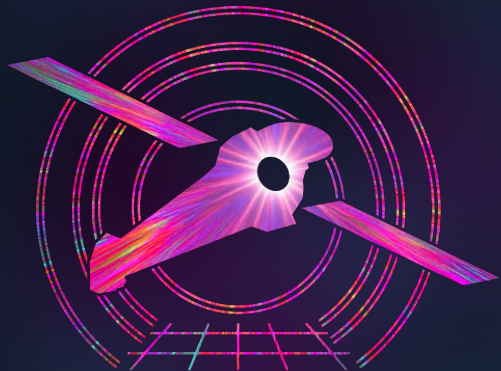




CHANDRA'S DYNAMIC UNIVERSE



Tuesday, Aug 18

All Talks in Phillips
All Times EDT (UTC-4)

Welcome

Prof. Raffaella Margutti & Prof. David Pooley

9:00 AM



Opening Remarks

Pat Slane

Director, Chandra X-ray Center

9:10 AM

BHs, NSs, and XRBs I: Black Holes

Where Does the Accretion Power Go? A Dynamic View of
Stellar-Mass Black Holes with Chandra

Javier Garcia

NASA GSFC

9:15 AM

A TDAMM Study of the Microquasar Cygnus X-3

Michael McCollough

CfA / SAO / CXC

9:45 AM

Awakening the Beast: How are X-ray Binary Outbursts Triggered?

Payaswini Saikia

Yale University

10:00 AM

Morning Break

10:15 AM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

Supernova Remnants & Planetary Nebulae

Chandra Studies of Supernova Remnants and their Associated Compact Objects

Tyler Holland-Ashford

NASA Goddard Space Flight Center

11:00 AM

Combining Chandra and XRISM observations to investigate the 3D morphology and dynamics of Tycho's SNR

Leïla Godinaud

CEA Saclay/Department of Astrophysics - AIM

11:30 AM

Time Evolution of X-ray Synchrotron Emission in Kepler's SNR:

Monitoring Acceleration Processes on Decadal Scales with Chandra

Vincenzo Sapienza

INAF - Osservatorio Astronomico di Palermo

11:50 AM

X-Ray Observational Evidence for Bipolar Outflow in Kepler's Supernova Remnant

Sanskriti Sharma

University of Texas at Arlington

12:10 PM

Lunch Break

12:30 PM

Lunch will be served in the Wolbach Space; see signage or ask the LOC for directions.

Stellar Astrophysics & Exoplanets

Timing is Everything - Stellar Flaring and Its Impact on Exoplanet Atmospheres

Meredith MacGregor

Johns Hopkins University

1:45 PM

Probing Stellar Wind Structure with Chandra HETG and XRISM

Pragati Pradhan

Embry-Riddle Aeronautical University

2:15 PM

Impact of Radiation and Flares on Planetary Atmospheres

Scott Wolk

Smithsonian Astrophysical Observatory

2:35 PM

Landscape of High-Energy Variability of Cool Stars

Thomas Ayres

University of Colorado

2:55 PM

Afternoon Break

3:15 PM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

Extragalactic Transients I / SMBHs, AGN, QPEs, and TDEs I: Fast XRTs and TDEs

Chandra's Role in the Era of Einstein Probe Fast X-ray Transients

Peter G. Jonker

Radboud University

4:00 PM

X-ray Observations of Supermassive Black Hole Transients

Erin Kara

Massachusetts Institute of Technology

4:30 PM

Tidal Disruption Event Accretion Flows

Andrew Mummery

Institute for Advanced Study

4:55 PM

A Giant Fast X-ray Flare Embedded in a Tidal Disruption Event

Dacheng Lin

Northeastern University

5:20 PM

The scientific program of **Chandra's
Dynamic Universe** was organized by:
Chairs: David Pooley & Raffaella Margutti

Brad Cenko ✨ Brendan O'Connor ✨ Craig Heinke

George Chartas ✨ Jean Somalwar ✨ Malgorzata Sobolewska

Marina Orio ✨ Murray Brightman ✨ Nanda Rea

Nathalie Degenaar ✨ Peter Kosec ✨ Rachel Osten ✨ Thomas Maccarone

Wednesday, Aug 19

BHs, NSs, and XRBs II: Neutron Stars

Neutron Star Transients with Chandra:
X-ray Binaries, Magnetars, and More!

Slavko Bogdanov

Columbia University

9:00 AM

The End of a 50-Year Search? A Candidate Optical Counterpart
to the Rapid Burster in the Bulge fossil fragment Liller 1

Cristina Pallanca

DIFA - Bologna University

9:30 AM

Search for Cassiopeia A Companion via Doppler Beaming

Stanislav Fainer

Weizmann Institute of Science

9:45 AM

Exploring the Cosmic Dust Chemistry in the X-rays

Daniele Rogantini

University of Chicago

10:00 AM

Lightning Talks

Fiona Redman — Universitat Autònoma de Barcelona

Vikram Dwarkadas — University of Chicago

Daichi Tsuna — CfA | Harvard & Smithsonian

Harry Van Der Ark — Columbia University

10:15 AM

Morning Break

10:30 AM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

Creative Prospects

Outcomes from the 4th TDAMM Workshop
and Community Observing Plans White Paper

Daniel Kocevski

NASA Marshall Space Flight Center

11:15 AM

ACROSS: Software Infrastructure to Enable Community-wide
Follow-up for Time Domain and Multi-Messenger Astrophysics

Brian Humensky

NASA Goddard Space Flight Center

11:45 AM

Mapping and Classifying X-ray Sources in the Chandra Source Catalog
with Self Organizing Maps

Raffaele D'Abrusco

Smithsonian Astrophysical Observatory

12:00 PM

Scheduling in a Dynamic Universe: Chandra Mission Planning in the
TDAMM Era

Scott Randall

Center for Astrophysics | Harvard & Smithsonian

12:15 PM

Lunch Break

12:30 PM

Lunch will be served in the Wolbach Space; see signage or ask the LOC for directions.

Panel Discussion

2:00 PM

James Steiner (Moderator)

Center for Astrophysics | Harvard & Smithsonian

Daryl Haggard

McGill University

Andrew Fabian

University of Cambridge

Murray Brightman

Caltech

Afternoon Break

3:30 PM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

Extragalactic Transients II: Supernovae & Fast Blue Optical Transients

A Decade of Luminous Fast Blue Optical
Transients: Insights from Chandra and Beyond

Nayana AJ

University of California, Berkeley

4:15 PM

A Panchromatic View of Shock Power in Type II Supernovae

Wynn Jacobson-Galán

Caltech

4:45 PM

Long-term Observations of Young Supernovae with the Chandra telescope

Vikram Dwarkadas

University of Chicago

5:00 PM

3D X-Ray Ejecta Kinematics of the Galactic Core-Collapse Supernova

Remnant G292+1.8

Shahreaz Khan Faisal

University of Texas at Arlington

5:15 PM

Workshop Dinner

6:00 PM

The workshop dinner will be held at Gustazo Cuban Kitchen & Bar - Cambridge, at 2067 Massachusetts Ave, Cambridge, MA. The restaurant is just under a mile from the CfA, or about twenty minutes by walking / 5 minutes by driving.

Please note: alcoholic beverages are not included with the dinner, but may be purchased separately.

Thursday, Aug 20

BHs, NSs, and XRBs III: White Dwarfs, CVs, and Their Manifestations

Exotic Nucleosynthesis and Atomic Processes
in X-ray Spectra of Nova

Ehud Behar

Technion – Israel Institute of Technology

9:00 AM

High-Resolution X-ray Diagnostics of Accreting White Dwarfs:

A Review of Chandra's Legacy in the TDAMM Era

Gerardo Juan Manuel Luna

CONICET/UNAHUR

9:30 AM

The Importance of X-rays for Understanding Millimeter

Flares from Accreting White Dwarfs

Thomas Maccarone

Texas Tech University

9:45 AM

Nova V1723 Sco and the Power of the Chandra

Gratings to Understand the Nova Physics

Marina Orio

University of Wisconsin–Madison and INAF-Padova

10:00 AM

X-ray Tomography to Study the Clumpy Wind in

High Mass X-ray Binary IGR J16320-4751

Ishaan Dhanwantry

Embry-Riddle Aeronautical University

10:15 AM

Morning Break

10:30 AM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

Extragalactic Transients III: GRBs and ULXs

The Pivotal Role of Chandra over

27 Years of Gamma-ray Bursts

Wen-Fai Fong

Northwestern University

11:15 AM

An X-ray View of the Nearest Extragalactic Repeating Fast Radio Burst Source

Aaron B. Pearlman

Massachusetts Institute of Technology (MIT)

11:45 AM

Localizing Serendipitously Detected X-ray Transients with Chandra

Murray Brightman

California Institute of Technology

12:00 PM

SS 433 as an Obscured Ultraluminous X-ray Source

Leonardo Drake

Massachusetts Institute of Technology (MIT)

12:15 PM

Lunch Break

12:30 PM

Lunch will be served in the Wolbach Space; see signage or ask the LOC for directions.

SMBHs, AGN, QPEs, and TDEs II: Changing-Look AGN

Changing-State AGN as Laboratories for

SMBH Accretion Physics

Claudio Ricci

University of Geneva

2:00 PM

Measuring AGN Variability at Cosmic Dawn

Thomas Connor

Smithsonian Astrophysical Observatory

2:30 PM

Using Space to Measure Time: Mapping the time variability of AGNs with sub-arcsecond X-ray (Chandra) and optical (HST) imaging

G. (Pepi) Fabbiano

CfA/SAO

2:45 PM

Bridging X-rays and Neutrinos with Long-Term Monitoring of AGN Coronal Emission

Victor Liu

Penn State University

3:00 PM

Fast X-Ray Variability from the Coronae of Supermassive Black Holes

Xiurui Zhao

California Institute of Technology

3:15 PM

Afternoon Break

3:30 PM

Foods and beverages—including coffee and tea—will be available in the Wolbach Space

SMBHs, AGN, QPEs, and TDEs II: Quasi-periodic Eruptions

Quasi-periodic eruptions: where do we stand?

Riccardo Arcodia

Black Hole Initiative at Harvard University

4:15 PM

Probing the Nature of Sgr A*'s Flares with Chandra and Multiwavelength Partners

Joe Michail

Center for Astrophysics | Harvard & Smithsonian

4:45 PM

The Demographics of Sagittarius A* X-ray Flares over 25 Years with Chandra

Nicole Ford

McGill University

5:00 PM

XRISM Insights Into Ultra Fast Outflows

Ehud Behar

Technion – Israel Institute of Technology

5:15 PM

Closing Remarks

5:30 PM

The **Local Organizing Committee** of
Chandra's Dynamic Universe consists of:

Chair: Amruta Jaodand

Thomas Connor ✨ Jason Conry ✨ Wendy Fernandez

Tara Gokas ✨ Rodolfo Montez, Jr.

Padmanabhan Ramadurai ✨ Aldo Solares ✨ Evan Tingle