

Einstein Fellows Symposium 2017

Thursday, October 12

9:00-9:15 Paul Green & Belinda Wilkes
[Welcome](#)

Session 1: Supernovae & Pulsars

9:15-10:30

Chair: Paul Plucinsky

9:15-9:30 Iair Arcavi
The Impossible Supernova

9:30-9:45 Eric Coughlin
Mass Ejection in Failed Supernovae

9:45-10:00 Jennifer Barnes
Two for One: A Long GRB And Broad-Lined Sn Ic from a Single Central Engine

10:00-10:15 Daniel Siegel
Neutron Star Post-Merger Simulations: The Origin of Kilonovae and the Heavy Elements

10:15-10:30 Philipp Moesta
The Most Powerful Transients in 3D

10:30 - 11:00 [COFFEE](#)

Session 2: Stars

11:00-12:00

Chair: Scott Wolk

11:00-11:15 Morgan MacLeod
Illuminating the Night Sky with Common Envelope Events

11:15-11:30 Anna Rosen
An Unstable Truth: How Massive Stars get their Mass

11:30-11:45 Philip Mocz
The Role of Magneto-Turbulence in Star Formation

11:45-12:00 Max Moe
Formation, Evolution, and Future of Binary Stars

12:00 - 1:30 [LUNCH](#)

Keynote Speaker: [Alexey Vikhlinin](#)

1:30-2:15

LYNX: Tomorrow's Super-Sensitive Eye on the X-ray Sky

Session 3: Black Holes

2:15-3:15

Chair: Francesca Civano

- 2:15-2:30 Jack Steiner
A NICER Look at Accreting Black Holes
- 2:30-2:45 Dan Wilkins
Unveiling the Structure and Evolution of Black Hole Coronae
- 2:45-3:00 Daniel D'Orazio
More Tips for Characterizing a Population of Massive Black Hole Binaries
- 3:00-3:15 Rahul Kannan
Quenching, Black Hole Feedback and Anisotropic Thermal Conduction

3:15 - 3:45 COFFEE

Session 4: Accretion

3:45-5:00

Chair: Fred Baganoff

- 3:45-4:00 Kyle Parfrey
Relativistic Accretion onto Millisecond Pulsars
- 4:00-4:15 Dheeraj Pasham
A Soft X-Ray/Radio Time Lag of the Tidal Disruption Flare ASASSN-14li: Evidence for Linear Disk-Jet Coupling
- 4:15-4:30 Nicholas Stone
The Delay Time Distribution of Tidal Disruption Flares
- 4:30-4:45 Massimo Gaspari
Unifying the Micro and Macro Properties of AGN Feeding and Feedback
- 4:45-5:00 Alexander Philippov
How do Pulsars Shine?

6:00pm Dinner for Fellows at the NuBar

Friday, October 13

Session 5: Active Galaxies

9:15-10:45

Chair: Belinda Wilkes

- 9:15-9:30 Anna Pancoast
Inflow and Outflow in the Broad Line Region of AGN
- 9:30-9:45 Vivienne Baldassare
Characterizing AGNs in Dwarf Galaxies
- 9:45-10:00 Rebecca Canning
X-ray AGN in Galaxy Clusters
- 10:00-10:15 Ashley King
Tides and Mergers Trigger Cluster Radio AGN
- 10:15-10:30 Krista Smith
The Kepler Light Curves of Active Galaxies: A New Regime of Optical Variability
- 10:30-10:45 Brooke Simmons
The Merger-Free Growth of Supermassive Black Holes and their Host Galaxies

10:45 - 11:15 COFFEE

Session 6: Gravity & Lensing

11:15-12:15

Chair: Dan Schwartz

- 11:15-11:30 Johan Samsing
Formation of Eccentric Black Hole Mergers
- 11:30-11:45 Davide Gerosa
Careful with the Priors: A Reanalysis of LIGO Black Hole Coalescences
- 11:45-12:00 Liang Dai
Caustic Crossing Stars in Cluster Strong-Lensing Systems and the Small-Scale Structure of Dark Matter
- 12:00-12:15 Anna Barnacka
Gravitational Lenses as High-Resolution Telescopes

12:15 - 1:45 LUNCH

Session 7: Cosmology

1:45-3:00

Chair: Larry David

- 1:45-2:00 Daniel Gruen
Cosmological Constraints from Weak Lensing in the Dark Energy Survey

- 2:00-2:15 Anna Patej
Measuring the Cosmological Distance Scale with Spectroscopic and Photometric Data
- 2:15-2:30 Simeon Bird
Detecting DLAs with Machine Learning
- 2:30-2:45 Shea Garrison-Kimmel
Morphological Drivers of Milky Way-Mass Galaxies: Insights from the FIRE Simulations
- 2:45-3:00 Zachary Slepian
The Missing Satellites Problem Re-examined: the Baryon-Dark Matter Relative Velocity in the Milky Way

3:00 - 3:30 COFFEE

Session 8: Milky Way

3:30-4:15

Chair: Rudy Montez

- 3:30-3:45 Hsiang-Yi Karen Yang
What is the Origin of the Fermi Bubbles?
- 3:45-4:00 Lia Corrales
Things that Go Bang in the Night: Using X-ray Echolocation to Study the Milky Way
- 4:00-4:15 Boris Leistedt
Data-Driven Models of the Milky Way in the Gaia Era