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  
*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  
*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 May-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**  
*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*