Community Astrophysics with WFIRST

(Feb 29 - March 2, 2016, Pasadena, CA)

Monday, February 29

8:00 **Poster viewing, Coffee, meeting check in**
9:00 L. Armus – Welcome, logistics
9:15 N. Gehrels – WFIRST project status and updates
9:40 D. Spergel – The WFIRST Wide Field Imager
10:00 J. Kasdin – The WFIRST Coronagraph

10:25 **Break**

10:55 R. Cutri – IPAC WFIRST Science Center activities
11:20 R. van der Marel – STScI WFIRST Science Center activities
11:45 J. Colbert – WFI Grism Simulations
12:00 S. Casertano – Planning and Analyzing WFIRST Grism Data

12:20 **Lunch**

13:40 Y. Wang – Cosmology from the WFIRST High Latitude Survey
14:05 B. Robertson – Galaxy Formation and Evolution Science with WFIRST
14:30 S. Malhotra – WFIRST Observations of High Redshift Galaxies
14:55 S. Furlanetto – WFIRST and Reionization

15:15 **Break**

15:50 B. Willman – WFIRST Science in the Era of LSST
16:15 P. Capak – Developing a Detailed Picture of Galaxy and Dark Matter Evolution with WFIRST
16:30 Y. Mellier – The Euclid-WFIRST Complementarity
16:50 H. Ferguson – Evolution of the Brightest Galaxies: What Controls the Turnover of the Luminosity Function
17:05 J. Kalirai – Preparing for JWST
17:30 S. Miyazaki – Subaru WFIRST Synergies for Deep and Wide Surveys

Tuesday, March 1

8:00 **Poster viewing, Coffee, check in**
9:00 Y. Dai – The Power of Infrared Grism Surveys – Insights from the WISP Survey
9:15 A. Henry – The Metallicity Evolution of Galaxies: New Science Enabled by Large Area Grism Surveys
9:30 P. Appleton – The Role of Shocks and Turbulence in Dense Group Environments at $1.5 < z < 2.5$ with WFIRST
9:45 T. Treu – Strong Lensing with WFIRST
10:10 L. Abramson – Probing Paradigms in Galaxy Evolution with WFIRST

10:30 **Break**

11:00 S. Driver – Bridging the Gap: The Evolution of Mass, Energy and Structure from z=0 to z=1.5
11:15 D. Trilling – Solar System Science with WFIRST
11:40 W. Traub – Coronagraph Science Studies by the WFIRST Preparatory Science Teams
12:00 L. Pueyo – GO Science with the WFIRST Coronagraph Instrument

12:30 **Lunch**

13:50 N. Lewis – Optimizing WFIRST Coronagraph Science
14:15 M. Turnbull – Detecting and Characterizing Exoplanets with the WFIRST Coronagraph: Colors of Planets in Standard and Designer Bandpasses
14:40 A. Shporer – WFIRST Can Do It Too: On the Discovery of Transiting Planets and Binary Stars with WFIRST
14:55 R. Hu – Exoplanet Spectra with WFIRST: Cool Planets, Exciting Stars
15:10 G. Bryden – Debris Disk Observations with WFIRST

15:30 **Break**

16:00 D. Spergel – Astrometry with WFIRST
16:15 B. Williams – The WFIRST Infrared Nearby Galaxy Survey
16:40 J. Kalirai – Resolving the Milky Way with WFIRST
17:05 J. Dalcanton – WFIRST & Nearby Galaxies: Lessons Learned from Previous Wide-Field Surveys
17:20 R. Sanderson – The WFIRST View of the Milky Way's Stellar Halo
17:35 R. Beaton – That Other Way to Measure H0: A Perspective for Precision Distances in the NIR with WFIRST

18:00 **Reception at the Hilton**

Wednesday, March 2

8:00 **Poster viewing, Coffee, check in**
9:00 R. Foley – Optimizing the WFIRST Supernova Survey
9:25 D. Law – IFU Spectroscopy with WFIRST
9:50 B. Cenko – Time Domain Astronomy with WFIRST
10:15 S. Van Dyk – Time Domain with a WFIRST Nearby Galaxy GO Program

10:35 **Break**

11:10 D. Whalen – Constraining the Properties of the First Stars with WFIRST
11:25 L. Yan – Superluminous Supernovae at High Redshifts with WFIRST
11:40 S. Gaudi – The WFIRST Microlensing Survey
12:05 R. Street – Stimulating Microlensing Research with WFIRST

12:25 **Lunch**

13:45 A. Gould – Non-Microlensing Science from WFIRST Microlensing
14:10 R. Benjamin – WFIRST: Opening New Frontiers in our Understanding of the Milky Way
14:35 E. Furlan – HST/WFC3 Surveys of Nearby Molecular Clouds: A Pathfinder for WFIRST Observations of Star Formation in the Nearest 2 Kpc
14:50 S. Carey – Investigating the Gas and Dust Content of our Galaxy at High Resolution
15:05 G. Wilson – Prospects for Galaxy Clusters and AGN with WFIRST

15:25 **Break**

15:55 M. Postman – The WFIRST Archive: An Astrophysics Discovery Machine
16:20 S. Heap – Cosmic Origins Science Enabled by the WFIRST Archives
16:35 M. Schneider – Joint Analysis of WFIRST and LSST Imaging for Photometric Redshift Inferences in the Lensing Survey
16:50 G. Snyder – Mock Observations and Galaxy Morphology Statistics from Cosmological Hydro Simulations