Monday, Feb 06, 2017

Protoplanetary Disks I, Chair: Jim Stone (Princeton)

8:50am Lars Bildsten (KITP) Welcome
9:00am Meredith Hughes (Wesleyan) Observational constraints on turbulence in protoplanetary disks from spatially resolved molecular-line observations
9:45am Neal Turner (JPL/Caltech) Detecting transport processes at work in protostellar disks
10:30am Morning Break

11:00am Ilsedore Cleeves (CfA/Harvard) Disk-ionization properties as revealed by molecular emission in disks
11:45am Geoffroy Lesur (Grenoble) Global dynamics of protoplanetary disks: The combined influence of non-ideal MHD and winds
12:30pm Lunch Break

Protoplanetary Disks II, Chair: Neal Turner (JPL/Caltech)

2:00pm Xuening Bai (CfA/Harvard) Towards the most realistic MHD simulations of protoplanetary disks
2:45pm Richard Nelson (Queen Mary London) Turbulence in protoplanetary disks: the roles and influence of the vertical shear (VSI) and spiral wave instabilities (SWI)
3:30pm Afternoon Break

4:00pm Catherine Espaillat (Boston U.) Footprints of the magnetosphere: The star-disk connection in young accreting objects
4:45pm Chris Johns-Krull (Rice) Magnetically controlled accretion onto young stars: Testing current models
5:30pm SHUTTLE TO BWSCI

Tuesday, Feb 07, 2017

Protoplanetary Disks III, Chair: Catherine Espaillat (Boston U.)

9:00am Natalia Dzyurkevich (MPIA) What molecular-cloud collapse can teach us about initial conditions for planet formation in disks
9:45am Joan Najita (NOAO) Spectroscopic probes of turbulence in the planet-formation region of disks

10:30am Morning Break

11:00am Zhaohuan Zhu (UNLV) Young planets in protoplanetary disks: Theory confronts observations
11:45am Ted Bergin (Michigan) Discussion Session
11:45am Lee Hartmann (Michigan) Discussion Session

12:30pm Lunch Break

Close Binaries I, Chair: Christian Knigge (Soton)

2:00pm Paula Szkody (Washington) Intriguing light curves of dwarf novae: Testbeds for accretion disk theories
2:45pm Matt Coleman (UCSB) Convection modifies MHD turbulence in accretion disks

3:30pm Afternoon Break

4:00pm Nick Higginbottom (Soton) Thermal disk winds in X-ray binaries: Realistic heating and cooling rates give rise to slow, but massive outflows
4:45pm Daniel Proga (UNLV) Radiation driven winds from MHD accretion disks

5:30pm POSTER SESSION / RECEPTION

6:00pm SPECIAL EVENTS DINNER

8:00pm SHUTTLE TO BWSCI

Wednesday, Feb 08, 2017

Close Binaries (II), Chair: Paula Szkody (U. Washington)

9:00am Fiona Harrison (Caltech) Ultraluminous X-ray sources: Recent progress and new puzzles
9:45am Aleksander Sadowski (MIT) Simulations of radiative accretion flows at the lowest and not-so-low accretion rates

10:30am Morning Break

11:00am Paul Groot (Radboud) Observations of spiral density waves and dynamic behavior of accretion disks in (ultra) compact binaries
11:45am Christian Knigge (Univ. of Southampton) Discussion Session
11:45am J.-P. Lasota (CNRS) Discussion Session

12:30pm Lunch Break

2:00pm FREE AFTERNOON-SHUTTLE AVAILABLE TO BWSCI

Thursday, Feb 09, 2017

Disks in AGN I, Chair: Charles Gammie (Illinois)
9:00am Chris Done (Durham)  Black-hole observations and MRI simulations
9:45am Omer Blaes (UCSB)  Theoretical issues in luminous AGN accretion flows
10:30am  

Morning Break

11:00am Chelsea MacLeod (CfA/Harvard)  A systematic search for changing-look quasars in SDSS
11:45am George Chartas (College of Charleston)  Quasar accretion-disk tomography
12:30pm  

Lunch Break

Disks in AGN II, Chair: Monika Moscibrodzka (Radboud)

2:00pm Chris Reynolds (Maryland)  Towards a first principles understanding of variability from accreting black holes
2:45pm Anna Pancoast (CfA/Harvard)  Disks in the broad-line region of AGN
3:30pm  

Afternoon Break

4:00pm Alexander Tchekhovskoy (LBL)  What makes a good jet?
4:45pm Yan-fei Jiang (KITP)  Resolving puzzles of AGN observations based on 3D global radiation MHD simulations of accretion disks
5:30pm  

POSTER SESSION / RECEPTION

6:00pm  

SPECIAL EVENTS DINNER

8:00pm  

SHUTTLE TO BWSCI

Friday, Feb 10, 2017

Disks in AGN III, Chair: Omer Blaes (UCSB)

9:00am Charles Gammie (Illinois)  Simulations of low accretion rate-black holes
9:45am Monika Moscibrodzka (Radboud)  Polarization of light and Faraday rotation in GRMHD simulations of the jet launching zone of M87
10:30am  

Morning Break

11:00am Jason Dexter (MPE)  Testing MHD accretion theory with event-horizon scale observations of low-luminosity AGN
11:45am Chris Done (Durham Univ.)  Discussion Session
11:45am Chris Reynolds (Maryland)  Discussion Session
12:30pm  

Lunch Break

2:00pm  

CONFERENCE END-SHUTTLE TO BWSCI *Also available to SB Airport and SB Airbus, Goleta location (See Registration Desk to sign up.)