



PRELIMINARY CONFERENCE PROGRAM

Arrival Day - Sunday - Nov 1st			
14:00-21:00			Registration
18:00-21:00			Reception Dinner
Day 1 - Monday - Nov 2nd			
08:30-09:00			Registration
09:00-09:15			Welcome
Session 1 - The High-Velocity Sky: Gaia, LAMOST and New Surveys			
Chair: Yang Huang			
09:15-09:45	Invited	Michael Perryman (Remote)	Gaia's contributions to high-velocity and hypervelocity stars
09:45-10:15	Invited	Ali Luo	High-Velocity Stars with LAMOST: From Rare Discoveries to Galactic Archaeology
10:15-10:35	Contributed	Julio A. Carballo-Bello (Remote)	Searching for new Hypervelocity Stars with Gaia DR3 and VLT/FORS2 Spectroscopy
10:35-11:05			Coffee Break & Group photo
11:05-11:25	Contributed	Leonardo Betancourt	Searching for Hypervelocity Stars in Euclid DR1
11:25-11:45	Contributed	Shuai Xu	Photometric Distances for Metal-poor Giants and a Search for Hypervelocity Stars with LAMOST DR13 and Gaia DR3
11:45-14:00			Lunch
14:00-14:30	Invited	Cuihua Du	Systematic Search and Origin tracing of High-Velocity Stars with LAMOST and Gaia
14:30-14:50	Contributed	Jian Zhang	Stella: An Agent-Driven Research System for High-Velocity Stars
14:50-15:10	Contributed	Yongkang Sun (Remote)	Systematic Search for Blue Hypervelocity Stars from LAMOST Survey
15:10-16:00			Coffee Break & Welcome Mixer
16:00-16:20			Discussion I (Chairs: Ali Luo + Cuihua Du)
Session 2 - Origins of Hypervelocity Stars: Galactic Center and Beyond			
Chair: Qingjuan Yu			
16:20-16:50	Invited	Ulrich Heber (Remote)	The first hyper-velocity stars: From discovery to Gaia DR4
16:50-17:10	Contributed	Jiahui Wang	Intergalactic Wandering Stars in the Local Universe
17:10-17:30	Contributed	Guoyang Chen	Discovery of five stars ejected from the Galactic centre with LAMOST
Day 2 - Tuesday - Nov 3rd			
09:00-09:30	Invited	Warren Brown	Developments in Hypervelocity Star Observations
09:30-10:00	Invited	Elena Rossi	The rate of hypervelocity stars
10:00-10:20	Contributed	Manuel Caveres	A hypervelocity star from DESI DR1 identification and spectroscopic followup
10:20-11:00			Coffee Break
11:00-11:20	Contributed	Alonso Luna	Search for red clump hypervelocity stars in the Galactic bulge
11:20-11:40	Contributed	Xiaochen Zheng	One Companion, Many Fates: A Unified IMC Perturbation Model for HVs, S-Stars, and Disk Stars
11:40-12:00	Contributed	Shunhong Deng	An Old, Low-mass, Metal-poor Hypervelocity Star Candidate Consistent with a Galactic Center Origin
12:00-14:00			Lunch
14:00-14:40			Discussion II (Chairs: Elena Rossi + Yang Huang)

Session 3 - Fast Stars as Probes of the Milky Way and Its Halo			
Chair: Re'em Sari			
14:40-15:10	Invited	Hefan Li	60 Candidate High-velocity Stars Originating from the Sagittarius Dwarf Spheroidal Galaxy in Gaia EDR3
15:10-15:30	Contributed	Haozhu Fu	High-Velocity Stars as Probes of the Milky Way: From Distant Hypervelocity Star Searching to the Galactic Potential
15:30-16:00	Coffee Break		
16:00-16:20	Contributed	Rui Guo	Milky Way Potential Measurement from the Vertical Phase-Space Spiral
16:20-16:40	Contributed	Yaojia Tang	Chemical and Orbital Signatures of Three Hypervelocity Stars: Constraints on the Origins
16:40-17:00	Contributed	Xiangyu Li	Measuring Milky Way Mass with RRL and BHB Halo Stars from LAMOST, SDSS and DESI
Day 3 - Wednesday - Nov 4th			
09:00-09:30	Invited	Jesse Han (Remote)	Hypervelocity Stars Trace a Supermassive Black Hole in the Large Magellanic Cloud
09:30-09:50	Contributed	Qikang Feng	The rotation curve of the Milky Way measured by classical Cepheids from Gaia DR3
09:50-10:10	Contributed	Haining Li (Remote)	High-Velocity Stars and the Mass of the Milky Way
10:10-10:50	Coffee Break		
10:50-11:10	Contributed	Hao Tian	Hide and Seek: Low surface density stellar streams hidden in the Milky Way
11:10-11:30	Discussion III (Chairs: Rui Guo + Jesse Han)		
11:30-13:00	Lunch		
13:15-17:30	Conference trip to the Mutianyu Great Wall		
18:00-22:00	Conference Dinner		
Day 4 - Thursday - Nov 5th			
Session 4 - Hypervelocity Compact Stars and Binary Evolution			
Chair: Brown Warren			
09:00-09:30	Invited	Kareem El-Badry	Hypervelocity messengers from thermonuclear supernovae
09:30-10:00	Invited	Aakash Bhat	From 3D to 1D: Modeling the Formation of Hyper-Velocity Stars from White Dwarf Binaries
10:00-10:20	Contributed	Huahui Yan	Escaped White Dwarf Candidates from Open Clusters
10:20-11:00	Coffee Break		
11:00-11:20	Contributed	Natalia Shagatova	Focused Wind Accretion in Quiescent Symbiotic Stars
11:20-11:40	Contributed	Luqian Wang	Searching for hot stripped star companions of rapidly rotating massive stars
11:40-12:00	Contributed	Chuanjie Zheng	The "Frog-eyes" System: A Photometric Pathway to Massive Binary Population Surveys
12:00-12:20	Contributed	Amit Kashi	Wind Collisions and Giant Eruptions in Massive Binaries, and their Effects on the Involved Stars
12:20-12:30	Contributed	Qianyu An	Peculiar Velocities of 1133 Dormant Black Hole/Neutron Star Binary Candidates Constructed by Simulating and Fitting Gaia Observables
12:30-14:00	Lunch		
14:00-14:30	Discussion IV (Chairs: Kareem El-Badry + Aakash Bhat)		
Session 5 - Runaway Massive Stars: Clusters, Binaries and Supernovae			
Chair: Amit Kashi			
14:30-15:00	Invited	Yanjun Guo	Early-type Runaway Stars and Their Origins in LAMOST
15:00-15:20	Contributed	Mitchel Stoop	Gaia DR3's view on high-mass runaway stars in the Milky Way and the Magellanic Clouds
15:20-15:50	Coffee Break		
15:50-16:10	Contributed	Chen Wang	Binary Interaction, Stellar Rotation, and the Origin of Runaway Stars
16:10-16:30	Contributed	Sara R. Berlanas (Remote)	Unraveling massive star ejections: the largest 5D kinematic catalog of Galactic runaway OB stars ahead of WEAVE, 4MOST, and Gaia DR4
16:30-16:50	Contributed	Chengyang He	Young runaway stars as dynamical tracers of star formation around the Local Bubble
16:50-17:10	Contributed	Christina Schoettler	The long-term evolution of Runaway Star populations in the presence of tidal fields
17:10-17:20	Contributed	Christina Schoettler	Survival of the planet-forming environment around ejected stars from the ONC
17:20-17:40	Contributed	Bhawna Mukhija	Revisiting Massive-Star Progenitor Grids: Black Hole, Neutron Star, and Long-GRB Formation from MESA Models and Population Synthesis in the Gaia Era
Day 5 - Friday - Nov 6th			
09:00-09:30	Invited	Mar Carretero-Castrillo	Massive runaway stars in the Milky Way: bow shocks, rotation, binarity and clues on their ejection mechanisms
09:30-09:50	Contributed	Baha Dinçel	The massive pre-supernova binary companion to the progenitor of the supernova remnant IC 443
09:50-10:30	Discussion V (Chairs: Mar Carretero-Castrillo + Christina Schoettler)		
10:30-11:00	Coffee Break		

Session 6 - Black Holes, Nuclear Dynamics and New Frontiers			
<i>Chair: Elena Rossi</i>			
11:00-11:30	Invited	Qingjuan Yu	Hypervelocity stars and the stars orbiting the Galactic center's massive black hole
11:30-11:50	Contributed	Yibo Yao	The Milky Way Bar's Influence on Orbits and Origin Reconstruction of Hypervelocity Stars
11:50-14:00	<i>Lunch</i>		
14:00-14:30	Invited	Re'em Sari	Dynamics in Nuclear Star Clusters: Hypervelocity Stars and Their Connection to Other Transients
14:30-15:00	Invited	Yang Huang	Hunting Intermediate-Mass Black Holes with Hypervelocity Stars
15:00-15:20	Contributed	Rainer Spurzem	Direct N-Body Simulations of Nuclear Star Clusters
15:20-15:40	Contributed	Yining Sun	Rapid Intermediate-mass Black Hole Formation via Runaway Mergers of Black Holes
15:40-16:10	<i>Coffee Break</i>		
16:10-16:40	<i>Discussion VI (Chairs: Re'em Sari + Rainer Spurzem)</i>		
16:40-17:00	<i>Conclusion Remarks (Warren Brown, Ulrich Heber & Yang Huang)</i>		
17:00	<i>Farewell with snacks & drinks</i>		