

Program

The Legacy and Future of Large Surveys: The Milky Way in Context

Monday, 4 May

Morning session Chair: Else Starkenburg		
09:15 – 09:30	Minchev/Poppenhäger	Welcome and opening remarks
09:30 – 09:55	Fred Watson	Enabling RAVE and GALAH – How the AAO Cooked Up its High-Fibre Diet
09:55 – 10:20	Hans-Walter Rix	USIT: the Ultimate Spectroscopic Imaging Telescope
10:20 – 10:45	David W. Hogg	How do we operate extremely productive, global spectroscopic projects?
10:45 – 11:15	COFFEE BREAK	
11:15 – 11:40	Amina Helmi	The Milky Way in its cosmological context
11:40 – 12:05	Volker Springel	Cosmological simulations of Milky Way look-alike galaxies
12:05 – 12:30	Cecilia Scannapieco	Cosmological Simulations of the Formation of Milky Way–Mass Galaxies

12:30 – 14:00 LUNCH

Afternoon session Chair: Noam Libeskind		
14:00 – 14:25	Julio Navarro	Dark Matter Clues from the Milky Way Satellites
14:25 – 14:50	Carlos Frenk	Will LCDM survive to fight another day?
14:50 – 15:15	Simon White	Complementing Clues
15:15 – 15:45	COFFEE BREAK	
15:45 – 16:10	Guinevere Kauffmann	Integral field spectroscopic study of stellar and ionized gas properties around edge-on disc galaxies in the stellar mass range $9 < \log M^* < 11$
16:10 – 16:35	Lutz Wisotzki	The MUSE Lyman-alpha view of galaxy assembly in the young universe
16:35 – 17:00	Jarle Brinchmann	MUSE-Faint: Dissecting the faintest galaxies with MUSE

Tuesday, 5 May

Morning session 1: Chair: Ivan Minchev		
09:30 – 09:55	Günther Hasinger	Cosmic Multimessenger Signals and the German Center for Astrophysics
09:55 – 10:20	James Binney	Normal modes and stellar dynamics
10:20 – 10:45	Arnaud Siebert	Galactic structure and dynamics with Gaia and WEAVE
10:45 – 11:15	COFFEE BREAK	
Morning session 2: Chair: David W. Hogg		
11:15 – 11:40	Alice Quillen	Galactic Resonance out of equilibrium
11:40 – 12:05	Lea Marques	The interaction and importance of bars and spirals in MW-like galaxies
12:05 – 12:30	Georges Kordopatis	Direct Evidence for Radial Migration from Large Spectroscopic Surveys

12:30 – 14:00 LUNCH

Afternoon session 1: Chair: Amina Helmi		
14:00 – 14:25	Elena D'Onghia	Fossil Records of the Milky Way's Merger History in the Structure of its Disk
14:25 – 14:50	Chervin Laporte	Build-up and survival of the disc: from numerical models of galaxy formation to the Milky Way
14:50 – 15:15	Ivan Minchev	Radial migration effect on estimates of disk galaxies SFH - the MW in context
15:15 – 15:45	COFFEE BREAK	
Afternoon session 2: Chair: Georges Kordopatis		
15:45 – 16:10	Olivier Bienaymé	RAVE and Gaia -- Stellar kinematics and integrals of motion
16:10 – 16:35	Gabriele Cescutti	Galactic Archaeology with neutron capture elements
16:35 – 17:00	Guillaume Guiglion	From RAVE to Gaia and 4MOST: the power of machine-learning for Galactic Archaeology

Wednesday, 6 May

Morning session 1: Chair: Cescutti		
09:30 – 09:55	Else Starkenburg	New views on the metal-poor Milky Way halo
09:55 – 10:20	Andrea Kunder	The Milky Way Bulge Extra-Tidal Star Survey (MWBEST)
10:20 – 10:45	Cristina Chiappini	Galactic Bulge: early chemical enrichment
10:45 – 11:15	COFFEE BREAK	
Morning session 2: Chair: Laporte		
11:15 – 11:40	Wolfgang Hillebrandt	A New Cosmic Ruler: Measuring Hubble's Constant with Type IIP Supernovae
11:40 – 12:05	Noam Libeskind	Cosmology and cosmography from peculiar velocities
12:05 – 12:30	Stefan Gottlöber	Clues to the beginning

Conference Picture at 12:30

12:40 – 14:00 LUNCH

Afternoon session Chair: Cristina Chiappini		
14:00 – 14:25	Franziska Piontek	Modeling across scales: from galaxy formation to social costs of carbon
14:25 – 14:50	Tilman Piffl	Almost full circle: from astrophysics to data science to optical engineering
14:50 – 15:15	Iliya Nickelt	Everything but the universe – AI as a cosmos of its own
15:15 – 15:45	COFFEE BREAK	
15:45 – 16:10	Arman Khalatyan	Talk to the Data — Enabling Reproducibility in Modern Astronomy
16:10 – 16:35	Discussion	DISCUSSION Leaders: Starkenburg, Rix
16:35 – 17:00	Matthias Steinmetz	Remarks

19:00 – 22:00 **CONFERENCE DINNER** Restaurant El Puerto, Lange Brücke 6, 14467 Potsdam

Thursday, 7 May

Morning session 1: Chair: Jakob Walcher		
09:30 – 09:55	Jeremy Bailin	CoSANG: Simulating a Sample of Stellar Halos
09:55 – 10:20	Michael Rauch	Accretion from the IGM
10:20 – 10:45	Christoph Pfrommer	Feedback in galaxy formation
10:45 – 11:15	COFFEE BREAK	
Morning session 2: Chair: Maria-Rosa Cionni		
11:15 – 11:40	Anthony Brown	Reflections on the Gaia mission
11:40 – 12:05	Steve Majewski	The Hidden Galaxy Explorer Program in After Sloan V
12:05 – 12:30	Borja Anguiano	J-ATLAS: Javalambre Andromeda and Triangulum Legacy Astrophysical Survey

12:30 – 14:00 LUNCH

Afternoon session Chair: Anthony Brown		
14:00 – 14:25	Gerry Gilmore & Gudrun Tausch-Pebody	Early light-bending tests of General Relativity: the good, the bad and the ugly
14:25 – 14:50	Maria-Rosa Cioni	The Clouds, please to meet you
14:50 – 15:15	Roelof de Jong	4MOST and future spectroscopic surveys
15:15 – 15:45	COFFEE BREAK	
15:45 – 16:10	Roland Bacon	The Wide-Field Spectroscopic Telescope: A Transformative Facility for Galactic Spectroscopic Surveys
16:10 – 16:35	Martin M. Roth	Crowded-field spectroscopy -towards Extragalactic Archaeology
16:35 – 17:00	Marica Valentini	Sneak Peek into 4MOST-DR0: Spectroscopic Follow-up of Solar-like Oscillating Red Giants
17:00 – 17:25	Gerhard Hensler	Star Cluster Formation in extragalactic Clouds

Friday, 8 May

Morning session Chair: TBD		
09:30 – 09:55	Michael Kramer	MPIfR MeerKAT Galactic Plane survey
09:55 – 10:20	Tomaž Zwitter	RAVEing a career
10:20 – 10:45	Kseniia Sysoliatina	Modeling the Milky Way Disk: Constraints from the White Dwarf Population
10:45 – 11:15	COFFEE BREAK	
11:15 – 11:40	Philipp Richter	The gaseous halo of the Milky Way
11:40 – 12:05	Martin Haehnelt	The Past, Present and Future of Damped Lyman Alpha absorption
12:05 – 12:30	Discussion	Final discussion and concluding remarks Leaders: D’Onghia, Navarro, de Jong

12:30 – 14:00 LUNCH