

5/28/2026

CITA@40 Day 2

TIME	Room 1 (MP 1318)
	Cosmology and LSS
9:00 AM	Albert Stebbins - Where Linear Theory Doesn't Work
9:20 AM	Glenn Starkman - The Universe is not statistically isotropic
9:40 AM	Tarun Souradeep - Biposh: Structured test bed for cosmic
10:00 AM	Rien van de Weygaert - Dynamics of the Cosmic Web
10:20 AM	Discussion
10:30 AM	Coffee Break
	Cosmology and LSS
11:00 AM	Levon Pogosian - Sound-horizon-agnostic approaches to the Hubble
11:20 AM	Gil Holder - The CMB at Radio Wavelengths
11:40 AM	Yin-Zhe Ma - From peculiar velocities to kSZ effect
12:00 PM	Suroor Seher Gandhi - Measuring cosmic bulk flow with kSZ velocity

Room 2 (Idea Lab)
ISM/Star Formation
Margot Mandy - Hydrogen Molecules in Collision
Viswesh Marthi - The smallest scales in the ionised ISM
Aris Tritsis - Ambipolar diffusion and the mass-to-flux ratio in turbulent collapsing
Peter Barnes - Adventures in Conquering the Galaxy
Discussion
Coffee Break
Disks to Planets
Phil Armitage - Accretion astrophysics: past, present and future
Matthew Browning - Diffusion free simulations and theory of stellar/planetary
Ralph Pudritz - Disk Winds and Planet Formation: a New Paradigm Emerges
Terrence Tricco - Global Accretion Disc Simulations of the Magneto-Rotational

Room 3 (MP 118?)
GW/BH/NS/WD
Maxim Lyutikov - Astrophysical Fast Radio Bursts: the plasma physics frontier
Mikhail Medvedev - Theory of striped dynamic spectra of the Crab pulsar's high-frequency
Sharon Morsink - The masses and radii of the neutron stars characterized by NICER
Rachid Ouyed - Probing Neutron Star Core Physics and Magnetization with SLSNe
Discussion
Coffee Break
GW/BH/NS/WD
Eric Poisson - Nonlinear dynamical tides in compact binary inspirals
Dhruv Desai - Relativistic jets from millisecond proto-magnetars
Kipp Cannon - Direct Inference of the Hubble Parameter from Compact Binar Collision

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TIME	Room 1 (MP 1318)
12:20 PM	Discussion
12:30 PM	Lunch
	Cosmology and LSS
2:00 PM	Selim Hotinli - Cosmology and Astrophysics from kSZ Tomography
2:20 PM	Andrei Frolov - King's Tour Inflation
2:40 PM	Evan McDonough- The Status of the Scalar Spectral Index
3:00 PM	Kris Sigurdson - a pipeline for mock observations of the CMB, galaxies and
3:20 PM	Discussion
3:30 PM	Coffee Break
	Topic
4:00 PM	Rajendra Gupta - Aspects and prospects of the CCC+TL
4:20 PM	Meng-Xiang Lin - Evidence of Interactions between Dark Axions
4:40 PM	Nathan Carlson- Efficient Evolution of Spherical Self-Gravitating Systems

Room 2 (Idea Lab)
Discussion
Lunch
Planets/Planetary Science
Man Hoi Lee - Exoplanets in Binary Star Systems
Cristobal Petrovich - The Dynamical Lives of Cold Neptunes
James Owen - What have we learned from the exoplanet radius valley
Janosz Dewberry - Orbital asynchronization and circularization by
Discussion
Coffee break
General Astrophysics
Hanno Rein - How to write the fastest N-body code in the world
Lorne Nelson - Binary stars as tests of Astrophysics
Jose Gherzi - Early Universe Cosmology and strong gravity phenomenology from

Room 3 (MP 118?)
Start of SKA Canada community meeting: https://nyx.physics.mcgill.ca/event/569/
Kristine Spekkens - HI Disks and Cosmological Galaxy Evolution: Past, Present and Future
SKA Canada Community meeting
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Coffee break
SKA Canada Community meeting
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CITA@40 Day 2

TIME	Room 1 (MP 1318)
5:00 PM	Alex Hayes - Particle Production of Dark Matter During Inflation
5:20 PM	Discussion
5:30 PM	End

Room 2 (Idea Lab)
Discussion
End

Room 3 (MP 118?)
SKA Canada Community meeting
Discussion
End