

Making massive spin-2 particles from gravity during inflation and reheating	Andrew Leung
NPB 2205, Physics department	14:00 - 14:30
Cosmological Implications of Kalb-Ramond Fields	Leah Jerde
NPB 2205, Physics department	14:30 - 15:00
Simulating Stochastic Gravitational Waves from Early Structure Formation	Joshua Foster
NPB 2205, Physics department	15:00 - 15:30
Schrödinger's Alarming Phenomenon of Particle Creation in the Expanding Universe	Rocky Kolm
NPB 2205, Physics department	16:00 - 17:00
Dynamical Equilibration of Dark Matter and Baryon Energy Densities	Anson He
NPB 2205, Physics department	09:00 - 09:30
ADMX Run1c: Multi Resolution Analysis	Alex Hill
NPB 2205, Physics department	09:30 - 10:00
Parity domain walls and the cosmology of Nelson-Barr	Qianshu
NPB 2205, Physics department	10:30 - 11:00
Electroweak Topology and Its Cosmological Implications	Tanmay Vachaspati
NPB 2205, Physics department	11:00 - 11:30
Seeing highly anisotropic gravitational wave backgrounds from phase transitions	Arushi Bodas
NPB 2205, Physics department	13:30 - 14:00
Charge quantisation, axion strings, and cosmic birefringence	Winston Yin
NPB 2205, Physics department	14:00 - 14:30

Topics & Themes

Cosmological Relics

- Dark matter
- Axions
- Gravitational waves
- Topological defects (domain walls, strings, monopoles)
- Gravitational particle production
- Primordial magnetism

Cosmological Epochs

- Inflation
- Phase transitions

Observational probes

- Laboratory tests (ADMX)
- CMB signatures (isocurvature, polarization)

Problems

- Strong CP
- Dark matter
- $\Omega_{\text{dm}} = 5 \Omega_{\text{baryon}}$