



# Sixteenth Marcel Grossmann Meeting

## Tuesday, 6 July 2021

### Extended Theories of Gravity and Quantum Cosmology: Block 1 (06:30 - 09:30)

-Conveners: Yi-Fu Cai

time	[id] title	presenter
06:30	[41] Quantum gravity phenomenology from thermodynamics of spacetime	LIŠKA, Marek
06:50	[120] Cosmic stringlike objects in hybrid metric-Palatini gravity	SILVA, Hilberto
07:10	[261] Gravitational waves in spacetime with extra dimensions	DU, Yuchen
07:30	[301] Primordial Black Holes and Stochastic Gravitational Waves in the Sound Speed Resonance Cosmology	YAN, Sheng-Feng
07:50	[350] Effective $f(R)$ actions for modified Loop Quantum Cosmologies	RIBEIRO, Ana Rita
08:10	[69] Quadratic curvature theories formulated as Covariant Canonical Gauge theories of Gravity	BENISTY, David
08:30	[358] Probing multiverse using gravitational wave observations	KUKIHARA, Moe
08:50	[219] Inflationary supersymmetric FRLW quantum cosmology	RAMIREZ ROMERO, Cupatitzio

# Wednesday, 7 July 2021

## Extended Theories of Gravity and Quantum Cosmology: Block 2 (06:30 - 09:30)

-Conveners: Yi-Fu Cai

time	[id] title	presenter
06:30	[574] Chaotic Solutions and Black Hole Shadow in $f(R)$ gravity	ADDAZI, Andrea
06:50	[437] Tidal heating of black holes and exotic compact objects on the brane	CHAKRABORTY, Sumanta
07:10	[459] Investigating if a quark star - black hole binary may yield new astrophysics and insights as to gravitational waves and Bose-Einstein condensation	BECKWITH, Andrew
07:30	[662] Data-driven Reconstruction of the Late-time Cosmic Acceleration with $f(T)$ Gravity	REN, Xin
07:50	[629] A Solution of the Cosmological Constant, Using Multiverse Version of Penrose CCC Cosmology, and Enhanced Quantization Compared	BECKWITH, Andrew
08:10	[485] Gravitational Memory Waveforms in Brans-Dicke Theory	TAHURA, Shammi
08:30	[639] Operator Ordering Ambiguity in Observables of Quantum Cosmology	SAHOTA, Harkirat Singh
08:50	[702] Decoupled Quark Stars in Self-interacting Brans-Dicke Gravity	MAJID, Amal

# Friday, 9 July 2021

## Extended Theories of Gravity and Quantum Cosmology: Block 3 (06:30 - 09:30)

-Conveners: Yi-Fu Cai

time	[id] title	presenter
06:30	[742] Teleparallel, $f(T)$ and Torsional Gravity and Cosmology	SARIDAKIS, Emmanuel
06:50	[865] Quantum Corrections to the Bianchi II Transition	FERNANDEZ URIA, Sara
07:10	[809] Late time cosmology with derivatives of matter Lagrangian	SHAHIDI, Shahab
07:30	[821] Semiclassical and quantum polymer dynamics of the Bianchi I cosmology in Ashtekar and volume-like variables	GIOVANNETTI, Eleonora
07:50	[847] Ungravity and the Cosmological Constant.	SABIDO, Miguel
08:10	[712] Big-bounce in projectively invariant Nieh-Yan models: Bianchi I cosmology	BOUDET, Simon
08:30	[1028] Observable traces of nonmetricity: constraining metric-affine gravity	DELHOM I LATORRE, Adrià
08:50	[843] Motion of a particle in the Bogoslovsky-Finsler space-time and the fate of the broken Lorentz invariance	DIMAKIS, Nikolaos
09:10	[1104] Precanonical quantization of Teleparallel Equivalent of General Relativity	KANATCHIKOV, Igor