

Sixteenth Marcel Grossmann Meeting

Monday, 5 July 2021

Theories of Gravity: Alternatives to the Cosmological and Particle Standard Models: Block 1 (16:30 - 19:30)

-Conveners: Stefano Bellucci; Orlando Luongo

time	[id] title	presenter
16:30	[755] A model independent approach to the study of $f(R)$ cosmologies with expansion histories close to Λ CDM	Prof. DUNSBY, Peter
16:50	[535] Black hole mimickers and the limits of GR	MALAFARINA, Daniele
17:10	[500] Cosmology in scalar-tensor $f(R,T)$ gravity	Mr GONÇALVES, Tiago B.
17:30	BREAK	
18:00	[37] Thermodynamics of scalar-tensor gravity: a new approach	Prof. FARAONI, Valerio
18:20	[579] Do gamma-ray burst measurements provide a useful test of cosmological models?	Mr KHADKA, Narayan
18:40	[356] Unifying baryogenesis with dark matter production	MARCANTOGNINI, Nicola

Tuesday, 6 July 2021

Theories of Gravity: Alternatives to the Cosmological and Particle Standard Models: Block 2 (09:30 - 12:30)

-Conveners: Orlando Luongo; Stefano Bellucci

time	[id] title	presenter
09:30	[201] The quasi-static approximation in Horndeski models	Dr PACE, Francesco
09:50	[346] Effects of non-vanishing dark matter pressure in the Milky Way galaxy	KURMANOV, Ergali
10:10	[881] The effect of screening mechanisms on black hole binary inspiral waveforms	RENEVEY, cyril
10:30	BREAK	
11:00	[976] Quasinormal modes in the field of a dyon-like dilatonic black hole	BOSHKAYEV, Kuantay Dr MALYBAYEV, Algis
11:20	[187] A post Newtonian modification of the gravitational potential at the extreme length/energy scales	Dr BHATTACHARYYA, Soham
11:40	[599] Cosmological barotropic fluids in geometrothermodynamics	Prof. QUEVEDO, Hernando

Wednesday, 7 July 2021

Theories of Gravity: Alternatives to the Cosmological and Particle Standard Models: Block 3 (09:30 - 12:30)

-Conveners: Orlando Luongo; Stefano Bellucci

time	[id] title	presenter
09:30	[348] Entanglement production in Einstein-Cartan theory	BELFIGLIO, Alessio
09:50	[345] Healing the cosmological constant problem through a vacuum energy geometric cancellation	LUONGO, Orlando
10:10	[757] The Model of Dark Energy Based on the Quantum-Mechanical Uncertainty Relation	DUMIN, Yurii
10:30	BREAK	
11:00	[268] Alternatives to Lambda: Torsion, Generalized Couplings, and Scale Invariance	MARTINS, Carlos
11:20	[588] On the Interaction Between Electromagnetic, Gravitational, and Plasma Related Perturbations on LRS Class II Spacetimes	SEMRÉN, Philip

Friday, 9 July 2021

Theories of Gravity: Alternatives to the Cosmological and Particle Standard Models: Block 4 (06:30 - 09:30)

-Conveners: Orlando Luongo; Stefano Bellucci

time	[id] title	presenter
06:30	[357] Model-Independent test of Scalar-Tensor gravity theory by reconstructing scalar mode of GW170817	GUSHIMA, yuya
06:50	[643] $f(R)$ Dual Theories of Quintessence : Expansion-Collapse Duality	MUKHERJEE, Dipayan
07:10	[347] Testing generalized logotropic models with cosmic growth	KONYSBAYEV, Talgar
07:30	BREAK	
08:00	[896] Inertial Horizon	GOOD, Michael
08:20	[906] CGHS Moving Mirror	MYRZAKUL, Aizhan
08:40	[383] Astrophysical bounds from red and blue shift limits in spherical and axisymmetric spacetimes	MAURO, Lorenza