

Sixteenth Marcel Grossmann Meeting

Monday, 5 July 2021

Mathematical Problems of Relativistic Physics: Classical and Quantum: Block 1 (16:30 - 19:30)

-Conveners: A. Shadi Tahvildar-Zadeh; Michael Kiessling

time	[id] title	presenter
16:30	[546] The point spectrum of the Dirac Hamiltonian on the zero-gravity Kerr-Newmann spacetime	LING, Eric
16:50	[575] The second Bianchi identity for spacetimes with timelike singularities	BURTSCHER, Annegret
17:10	[1031] Times of arrival and gauge invariance	DAS, Siddhant
17:30	[550] Causal fermion systems: Classical gravity and beyond	FINSTER, Felix
17:50	[444] Division algebraic symmetry breaking	Dr FUREY, Nichol
18:10	[1030] Essential Self-Adjointness of Dirac operators under the influence of general-relativistic gravity	Dr TOPRAK, Ebru
18:30	[613] Spacetime Harmonic Functions and the Mass of 3-Dimensional Asymptotically Flat Initial Data for the Einstein Equations	KAZARAS, Demetre
18:50	[458] On recent developments in the theory of dissipative relativistic fluids	HOANG, Vu
19:10	[446] The Maxwell-Bopp-Lande-Thomas-Podolsky-Einstein system for a static point source	DE AMORIM, Erik

Thursday, 8 July 2021

Mathematical Problems of Relativistic Physics: Classical and Quantum: Block 2 (16:30 - 19:30)

-Conveners: Michael Kiessling; A. Shadi Tahvildar-Zadeh

time	[id] title	presenter
16:30	[982] New approaches to constrained dynamics and Hamilton-Jacobi procedures in general relativity	SALISBURY, Donald
16:50	[717] Mass loss law for weak gravitational fields: With or without a positive cosmological constant	HOQUE, Sk Jahanur
17:10	[846] Wave propagation in the anti-deSitter optical metric	GARCÍA-PELÁEZ, David Dr LOPEZ-MONSALVO, Cesar Simon
17:30	[762] Wald-Zoupas charges in the asymptotically de Sitter spacetimes	KOLANOWSKI, Maciej
17:50	[508] Adiabatic Solutions in General Relativity and Boundary Symmetries	Dr KUTLUK, Emine Şeyma
18:10	[815] Averaging cosmological observables in the LSS surveys	FANIZZA, Giuseppe
18:30	[661] Gravitational geometric phase	MUKHOPADHYAY, Banibrata
18:50	[654] Newman-Penrose-Debye formalism for fields of various spins in pp-wave backgrounds	KULITSKII, Aleksandr
19:10	[779] Retarded potentials and radiation in odd dimensions	KHLOPUNOV, Mikhail
19:15	[1025] Orientability of space from electromagnetic quantum fluctuations	REBOUCAS, MARCELO
19:20	[841] Quantum imprints of gravitational shockwaves	GRAY, Finnian
19:25	[253] Hypercomplex medium as a storage of physical equations	YEFREMOV, Alexander