

Sixteenth Marcel Grossmann Meeting

Tuesday, July 6, 2021

Strong Electromagnetic and Gravitational Field Physics: From Laboratories to Early Universe: Block 1 (9:30 AM - 12:30 PM)

-Conveners: She-Sheng Xue; Sang Pyo Kim; Ehsan Bavarsad

time	[id] title	presenter
9:30 AM	[M91] On the origin of the LIGO "mystery" noise and the high energy particle physics desert	AFSHORDI, Niayesh
9:50 AM	[M009] Tadpole contribution to magnetic photon-graviton conversion	SCHUBERT, Christian KARBSTEIN, Felix
10:10 AM	[M0] Perspectives of measuring gravitational effects of laser light and particle beams	SPENGLER, Felix
10:25 AM	[M17] Particle creation by strong fields and quantum anomalies	Prof. NAVARRO-SALAS, Jose
10:45 AM	[M0] Why quantum field theory in curved space--time is very far from being well understood	Prof. AKHMEDOV, Emil
11:05 AM	[M08] Most Reliable Strong and Electroweak Evolution	TAWFIK, Abdel Nasser
11:20 AM	[M11] Neutral Fermion pair production by Sauter-like magnetic step	ADORNO, Tiago HE, Zi Wang
11:35 AM	[M4] Experimental Observation of Acceleration-Induced Thermalities	Dr LYNCH, Morgan H.
11:50 AM	[M2] Breaking of adiabatic invariance in the production of particles by strong fields	BELTRÁN-PALAU, Pau
12:05 PM	[M20] Amplifying the entanglement of detectors around rotating BTZ black holes	ROBBINS, Matthew HENDERSON, Laura MANN, Robert
12:20 PM	[M44] The Validity of the Semiclassical Approximation in 1+1 Electrodynamics: Numerical Solutions to the Linear Response Equation	Mr NEWSOME, Ian M.

Friday, July 9, 2021

Strong Electromagnetic and Gravitational Field Physics: From Laboratories to Early Universe: Block 2 (6:30 AM - 9:30 AM)

-Conveners: She-Sheng Xue; Ehsan Bavarsad; Sang Pyo Kim

time	[id] title	presenter
6:30 AM	M182] Gravitational properties of laser light	RÄTZEL, Dennis
6:50 AM	M190] Laboratory-based intense gamma-ray and lepton beams for strong-field QED and laboratory astrophysics	Dr TAMBURINI, Matteo
7:10 AM	M124] Vacuum instability effects in strong field QED with asymmetric electric field of analytic form	Mr BREEV, Alexandr
7:30 AM	M221] Magnetic field screening in strong crossed electromagnetic fields	CAMPION, Stefano
7:45 AM	M102] New partial resummation of the QED effective action	PLA GARCIA, Silvia
8:00 AM	M147] On Kerr black hole perfect MHD processes in Doran coordinates	CHERUBINI, Christian
8:20 AM	M129] Electromagnetic and gravitational radiation from particles in intense electromagnetic fields	AUDAGNOTTO, giulio
8:40 AM	M180] Constraints on the non-minimal coupling of Electromagnetic fields from astrophysical observations	JANA, SUSMITA
8:55 AM	M131] Does a detector detect soft photons?	KOLEKAR, Sanved
9:10 AM	M102] Dynamics of relativistic electron in non-uniform magnetic field and its applications in astrophysics and quantum computing	AGGARWAL, Srishty