

SAIP2014

Tuesday 08 July 2014

Theoretical - D Les 104 (10:00-10:40)

-Conveners: Frederik Scholtz

time	[id] title	presenter
10:00	[22] Higgs quartic coupling, neutrino masses and mixing angles in 2UED models	Prof. CORNELL, Alan
10:20	[23] Evolution of Yukawa Couplings and Quark Flavour Mixings in the 2UED	Mr ABDALGABAR, Ammar

Theoretical - D Les 104 (11:10-12:10)

-Conveners: Alan Cornell

time	[id] title	presenter
11:10	[53] Integrability in Large N super Yang-Mills Theory	Prof. DE MELLO KOCH, Robert
11:30	[67] SO(N) restricted Schur polynomials	Mr KEMP, Garreth
11:50	[80] Non Planar Integrability in ABJM	Ms SMITH, Stephanie

Theoretical - D Les 104 (14:00-15:40)

-Conveners: Robert de Mello Koch

time	[id] title	presenter
14:00	[95] Finite N Quiver Gauge Theory	Mr KREYFELT, Rocky
14:20	[321] The Large-N Limit Of Matrix Models And AdS/CFT	Mr MULOKWE, Mbavhalelo
14:40	[340] Saddle point analysis within a vector-like SU(2) 'QCD' model	Mrs JOHNSON, Celeste
15:00	[43] The Provost metric as a systematic means to construct geometric and gravitational duals	Mr VAN ZYL, Hendrik
15:20	[243] Quark-Gluon Plasma Physics from String Theory	Dr MORAD, Razieh

Wednesday 09 July 2014

Theoretical - D Les 104 (10:00-10:40)

-Conveners: Frederik Scholtz

time	[id] title	presenter
10:00	[474] TCP Specialist meeting	

Theoretical: Theoretical - D Les 104 (11:10-12:10)

-Conveners: Azwinndini Muronga

time	[id] title	presenter
11:10	[314] Thermodynamics of open quantum systems	Dr SEMIN, Vitalii
11:30	[426] Aliasing in Atomic Clocks	Dr AKHALWAYA, Ismail
11:50	[206] Quantum feedback control of a harmonic oscillator	Ms BASSA, Humairah

Theoretical: Theoretical - D Les 104 (14:00-15:40)

-Conveners: Jean Cleymans

time	[id] title	presenter
14:00	[104] Quantum Networking with Graph States	Prof. TAME, Mark
14:20	[268] Homogeneous Open Quantum Walks on a Line	Dr CABALLAR, Roland Cristopher
14:40	[356] Entanglement of two distant nitrogen-vacancy-center ensembles under the action of squeezed microwave field	Dr TEPER, Natalia
15:00	[93] Efficient Quantum Simulation of Markovian Quantum Dynamics of a Qubit	Mr SWEKE, Ryan
15:20	[37] Quantum Neural Networks - Our brain as a quantum computer?	Ms SCHULD, Maria

Thursday 10 July 2014

Theoretical: Theoretical - D Les 104 (10:00-10:40)

-Conveners: Thomas Konrad

time	[id] title	presenter
10:00	[299] Hamiltonian approach to open quantum Brownian motion.	Dr SINAYSKIY, Ilya
10:20	[378] Finite-size key security of Phoenix-Barnett-Chefles 2000 quantum-key-distribution protocol	Dr MAFU, Mhlambululi

Theoretical: Theoretical - D Les 104 (11:10-12:10)

-Conveners: Ilya Sinayskiy

time	[id] title	presenter
11:10	[84] A GPU Based Polyhedral Particle DEM Transport Code	Mr GOVENDER, Nicolin
11:30	[6] Massive Affordable Computing Using ARM Processors in High Energy Physics	SMITH, Joshua Wyatt
11:50	[161] Computer Assisted Proof of the Global Existence of Periodic Orbits in the Rössler System	Dr BOTHA, André

Theoretical: Theoretical - D Les 104 (14:00-15:40)

-Conveners: Kristian Müller-Nedebock

time	[id] title	presenter
14:00	[418] Numerical modelling of the generation of Gaussian graph state	Mr NZUZI MBENZA, Lucien
14:20	[173] Computational study of structural, thermal and electronic properties of the chalcopyrites AlAgX ₂ (X=S,Se,Te)	Mr DONGHO NGUIMDO, Guy Moise
14:40	[171] Structural and Electronic Properties of Fe doped Technetium Sulphide	Mr ABDULSALAM, Mahmud
15:00	[236] Resonance features of stack of long Josephson junctions	Mr RAHMONOV, Ilhom
15:20	[129] Collider Black-Holes: Preliminary Results and Outlook	Mr CARLSON, Warren

Friday 11 July 2014

Theoretical: Theoretical - D Les 104 (10:00-10:40)

-Conveners: Daniel Joubert

time	[id] title	presenter
10:00	[265] Dynamics of processive and non-processive molecular motors on filaments	Prof. MÜLLER-NEDEBOCK, Kristian
10:20	[177] Vacuum Energies and Frequency Dependent Interactions	Prof. WEIGEL, Herbert

Theoretical: Theoretical - D Les 104 (11:10-12:10)

-Conveners: Herbert Weigel

time	[id] title	presenter
11:10	[223] Compact stars for NITheP internship programme	Prof. MURONGA, Azwinndini
11:30	[417] Particle number dependent discontinuities in density functional derivatives.	Prof. JOUBERT, Daniel
11:50	[148] Josephson Junctions under external radiation: Devil's Staircases and Continued Fractions	Dr SHUKRINOV, Yury