SAIP2016

Tuesday 05 July 2016

Theoretical and Computational Physics (1): TCP - 2A (10:00-10:40)

   -Conveners: Kristian Müller-Nedebock

time	[id] title	presenter
10:00	[229] Yang-Lee and Fisher zeros in a model of adsorbing self-avoiding walks	Prof. JANSE VAN RENSBURG, Esaias J

Theoretical and Computational Physics (1): Track2 - 4A (10:00-10:40)

   -Conveners: William Horowitz; Azwinndini Muronga; Robert de Mello Koch; Kristian Müller-Nedebock

time	[id] title	presenter
10:00	[111] Are we gauging the pressure correctly?	Mr JACKSON, Greg
10:20	[41] Quantum Corrections to the Kink-Antikink Potential	Mr LEE, Zander

Theoretical and Computational Physics (1): TCP - 2A (11:10-12:10)

   -Conveners: Kristian Müller-Nedebock

time	[id] title	presenter
11:10	[352] Parallel computing solutions to the Balitsky-Kovchegov equation	Mrs HILLEBRAND-VILJOEN, Charlotte
11:30	[145] Quantum Boltzmann evolution of the Quark-Gluon Plasma	Mr GRUNOW, William
11:50	[442] Engineer inflation in realistic string compactifications	Mr PONTIGGIA, Luca

Theoretical and Computational Physics (1): TCP - 2A (14:00-15:40)

   -Conveners: Robert de Mello Koch

time	[id] title	presenter
14:00	[335] Non-reversal Open Quantum Walks	Mr GOOLAM HOSSEN, Hazmatally
14:20	[323] Digital simulation of many-body non-Markovian dynamics	SWEKE, Ryan
14:40	[147] Quantum channel tomography with classical light	Mr NDAGANO, Bienvenu
15:00	[288] Beyond ½-BPS: Symmetry Generators in <i>su(2)</i> and <i>su(3)</i>	Ms TRIBELHORN, Laila
15:20	[113] Wilson Lines and Color-Neutral Operators in the Color Glass Condensate	Mrs ZEILINGER, Judith

Theoretical and Computational Physics (1): T2 - 4A (14:00-15:40)

   -Conveners: Kristian Müller-Nedebock

time	[id] title	presenter

14:00	[457] Lattice thermal conductivity properties of three binary type- I Sn clathrates from Density Functional Theory	Mr EGBELE, Peter
14:20	[386] First Principle Investigation of Structural, Thermodynamic, Electronic and Elastic Properties of Ru-Cr-Z Ternary Alloys	Mr MNISI, BHILA
14:40	[177] Electronic structure and bandgap of gamma-Al2O3:Ce compound using LDA+U exchange potential	Ms MULWA, Winfred Mueni
15:00	[189] Computational study of TiO_2 polymorphs as an anode material for energy storage devices	Mr GANDAMIPFA, Mulatedzi
15:20	[68] Determining resonance parameter from experimental cross-sections of Coulomb scattering.	Mr VAANDRAGER, Paul

Wednesday 06 July 2016

Theoretical and Computational Physics (1): TCP - 2A (09:40-10:40)

   -Conveners: Nnditshedzeni Eric Maluta

time	[id] title	presenter
09:40	[234] How Cool is the Gluon Plasma?	Mr GIOVANNONI, Dino
10:00	[257] Short Path Length Energy Loss in the Quark Gluon Plasma	Ms KOLBE, Isobel
10:20	[411] Probing quark gluon plasma in pA collisions	Mr ADAMIAK, Daniel

Theoretical and Computational Physics (1): TCP - 2A (11:10-12:10)

   -Conveners: George Manyali

time	[id] title	presenter
11:10	[139] QCD thermodynamics in finite volume	MOHAMED, Husam
11:30	[165] BPS Geometries	Mr NKUMANE, Lwazi
11:50	[16] Evolution of Yukawa couplings in 5 dimensions for an SU(3) gauge group	Mr KHOJALI, Mohammed Omer

Theoretical and Computational Physics (1): TCP - 2A (14:00-15:40)

   -Conveners: Kristian Müller-Nedebock

time	[id] title	presenter
14:00	[341] Strings with Finite Endpoint Mass	Dr HOROWITZ, William
14:40	[532] Division Meeting: TCP	Prof. MÜLLER-NEDEBOCK, Kristian

Thursday 07 July 2016

Theoretical and Computational Physics (1): TCP - 2A (09:40-10:40)

   -**Conveners: Azwinndini Muronga**

time	[id] title	presenter
09:40	[35] 2HDM and the LHC	Mr MOSOMANE, Chuene
10:00	[103] Quasinormal modes for a spin-3/2 field in the Reissner-Nordstrom black hole background	Mr NGCOBO, Xolane
10:20	[126] Generalized Geometry and Hopf Twists	Mr DLAMINI, Hector

Theoretical and Computational Physics (1): TCP - 2A (11:10-12:10)

   -**Conveners: William Horowitz**

time	[id] title	presenter
11:10	[230] Exact Magnon Dynamics	Prof. DE MELLO KOCH, Robert
11:30	[166] Anomalous Dimensions of Heavy Operators from Magnon Energies	Mr HASINA TAHIRIDIMBISOA, Nirina Maurice
11:50	[167] Interacting Double Coset Magnons	Mr MAHU, Augustine Larweh

Friday 08 July 2016

Theoretical and Computational Physics (1) - 2A (09:40-10:40)

   -Conveners: William Horowitz

time	[id] title	presenter
09:40	[159] NON-SPECIALIST LECTURE: Nonequilibrium processes and their fluctuations	Prof. TOUCHETTE, Hugo
10:20	[339] Dynamics and thermodynamics of open quantum Brownian motion	Dr SINAYSKIY, Ilya

Theoretical and Computational Physics (1) - 2A (11:10-12:10)

   -Conveners: Nnditshedzeni Eric Maluta

time	[id] title	presenter
11:10	[321] Computational study of TIO2 Brookite (1 0 0) surface doped with Ruthenium for application in dye sensitised solar cells	Dr MALUTA, Nnditshedzeni Eric
11:30	[1] Modeling of the Debye Temperature, Melting Entropy and Enthalpy of Nanomaterials	Dr SINGH, Madan
11:50	[277] Reduction of noise in CSDG MOSFET with HfO2	Prof. SRIVASTAVA, VIRANJAY M.

Theoretical and Computational Physics (1) - 2A (14:00-15:40)

   -Conveners: Kristian Müller-Nedebock

time	[id] title	presenter
14:00	[416] The hierarchal decision making algorithm as an analytical tool for a natural understanding physical systems	Mr AGWA-EJON, JOHN FRANCIS
14:20	[306] The energy density as a function of spacetime for a light quark jet in AdS/CFT	Dr MORAD, Razieh
14:40	[66] Radial Flow in Non-Extensive Thermodynamics and Study of Particle Spectra at LHC in the Limit of Small $q-1$	Dr BHATTACHARYYA, Trambak
15:00	[449] Phenomenology of additional scalar bosons at the LHC	Dr KUMAR, Mukesh
15:20	[302] Next to leading order electron-quark interaction	Dr KEMP, Garreth