

SM&FT 2011

The XV workshop on Statistical Mechanics and non Perturbative Field Theory

Bari (Italy), September 21-23, 2011
Dipartimento di Fisica Univ. Bari - INFN Sezione di Bari

Wednesday, September 21

	rooms A,B	
8.00 - 8.50	<i>Registration</i>	
	room A	
Chair	Giovanni M. Cicuta	
	<i>Welcome</i>	
8.50 - 9.00	Salvatore Nuzzo Head of the Department of Physics, Univ. Bari Eugenio Nappi , Director INFN - Sezione di Bari	
9.00 - 9.30	Giuseppe Mussardo <i>Local correlators in Lieb-Liniger model of cold atoms</i>	
9.30 - 10.00	Gesualdo Delfino <i>Universal results for two-dimensional percolation</i>	
10.00 - 10.30	Nazario Tantalo <i>Lattice calculation of QCD isospin breaking effects</i>	
10.30 - 11.00	Cecilia Tarantino <i>Lattice QCD determination of mb, fB and fBs with twisted mass Wilson fermions</i>	
11.00 - 11.30	<i>Coffee</i>	
	room A	
Chair	Marco Zannetti	
11.30 - 12.00	Alessandro Pelizzola <i>Direction dependent mechanical unfolding and Green Fluorescent Protein as a force sensor</i>	
12.00 - 12.30	Adriano Di Giacomo <i>Dual Superconductivity of QCD vacuum revisited</i>	
12.30 - 13.00	Ferdinando Gliozzi <i>Effective string action from Lorentz invariance of confining gauge theories</i>	
13.00 - 14.00	<i>Lunch</i>	
	room A	
Chair	Alessandro Papa	
14.00 - 14.30	Marco Panero <i>QCD thermodynamics and the large-N limit - A review</i>	
14.30 - 15.00	Duccio Fanelli <i>Stochastic models and pattern formation</i>	
15.00 - 15.30	Oleg Borisenko <i>Renormalization group based on cluster decimation approximation</i>	
15.30 - 16.00	Federico Corberi <i>Fluctuations in quenched spin-glasses and coarsening systems: are they similar ?</i>	
16.00 - 16.30	<i>Coffee</i>	
	room A	room B
Chair	Michele Pepe	Giuseppe Gonnella
16.30 - 16.50	Anne-Mari Mykkänen <i>Renormalization of Polyakov loops in different representations in SU(N) lattice gauge theories</i>	Antonio Lamura <i>Dynamics and rheology of vesicle suspension in shear flow</i>
16.50 - 17.10	Francesco Negro <i>Chiral Properties of Strong Interactions in a Magnetic Background</i>	Cesare Nardini <i>On a microcanonical relation between continuous and discrete spin models</i>
17.10 - 17.30	Marco Frasca <i>Analysis of strongly coupled quantum field theories: A perturbation approach</i>	Luigi Palatella <i>A reflexive toy-model for financial markets</i>
17.30 - 17.50	Matteo Mori <i>The Delta-Statistics of Unconventional Quarkonium-Like Resonances</i>	Giuseppe Florio <i>Statistical mechanics of entanglement</i>

Thursday, September 22

room A	
Chair	Adriano Di Giacomo
9.00 - 9.40	Leticia F. Cugliandolo <i>Cooling rate dependencies across thermal phase transitions</i>
9.40 - 10.20	Valentin Zakharov <i>Exploring superfluid models of the quark-gluon plasma</i>
10.20 - 11.00	Edward Shuryak <i>Why do fermions strongly affect the deconfinement transition?</i>
11.00 - 11.30	Coffee
room A	
Chair	Ferdinando Gliozzi
11.30 - 12.00	Marco Zannetti <i>Growth law and superuniversality in disordered ferromagnets</i>
12.00 - 12.40	Owe Philipsen <i>Constraints on the QCD phase diagram from imaginary chemical potential</i>
12.40 - 13.00	Alessandro Papa <i>The QCD critical line from the method of analytic continuation</i>
13.00 - 14.00	Lunch
room A	
Chair	Massimo D'Elia
14.00 - 14.30	Francesco Di Renzo <i>The AuroraScience Project</i>
14.30 - 15.00	Piero Vicini <i>QUonG: a GPU-based parallel processor system for scientific computing</i>
15.00 - 15.20	Claudio Bonati <i>Staggered fermions simulations on GPU: status and perspectives</i>
15.20 - 15.40	Alessandro Vezzani <i>Transport and Scaling in Quenched Lévy Quasicrystals</i>
15.40 - 16.00	Pietro Giudice <i>Lattice Planar QED in external magnetic field</i>
16.00 - 16.30	Coffee
room A	
Chair	Paolo Cea
16.30 - 17.00	Stefano Lepri <i>Nonreciprocal wave propagation in a nonlinear system</i>
17.00 - 17.30	Gergely Endrodi <i>Dressed Wilson loops as dual condensates in response to magnetic and electric fields</i>
17.30 - 17.50	Michele Pepe <i>The taming of the artifacts</i>

Friday, September 23

room A	
Chair	Gesualdo Delfino
9.00 - 9.30	Elena Agliari <i>A thermodynamic perspective of immune capabilities</i>
9.30 - 10.00	Mario Casartelli <i>Partitions and Rohlin's Distance: general formalism and applications to the evolution of Influenza A virus</i>
10.00 - 10.30	Marco Ruggieri <i>Exploring the QCD Phase Diagram via a Chiral Chemical Potential</i>
10.30 - 11.00	Dmitri Antonov <i>Reconciling confinement of light quarks with chiral-symmetry breaking</i>
11.00 - 11.30	Coffee
room A	
Chair	Giovanni M. Cicuta
11.30 - 12.10	Kenichi Konishi <i>Dual gauge symmetry from flavor</i>
12.10 - 12.50	Eytan Domany <i>Complex dynamics of transcriptional response: how do cells get on the fast lane?</i>
12.50	Closing