

QID 2011

From Field Theory to Quantum Information and Quantum Devices

PROGRAM

..... Friday, January 7

9:00	Registration	
9:20	Opening	
9:30 - 13:00		<i>Chair: Angelo Vulpiani</i>
9:30 - 10:15	Francesco Guerra	Quantum Field Theory in Naples in the Sixties
10:15 - 11:00	Raffaella Burioni	Quantum particles and spectral properties of graphs: BEC, confined superfluidity and solitons in inhomogeneous arrays
11:00 - 11:30		Coffee Break
11:30 - 12:15	Giorgio Parisi	Theoretical progresses in off-equilibrium behaviour
12:15 - 13:00	Andrea Cappelli	Non-Abelian anyons in the quantum Hall effect
13:00		Lunch
15:00 - 18:30		<i>Chair: Giorgio Parisi</i>
15:00 - 15:45	Roman Jackiw	Scale and Conformal transformations in diverse dimensions
15:45 - 16:30	So-Young Pi	Majorana Fermions in a Superconductor
16:30 - 17:00		Coffee Break
17:00 - 17:45	David K. Campbell	Transfer of Bose-Einstein Condensates through Discrete Breathers in an Optical Lattice
17:45 - 18:30	Michel Peyrard	Nonlinear excitations as tools to analyze DNA thermodynamics and dynamics
20:00		Aperitif
20:30		Dinner

Saturday, January 8

9:30 - 13:00 *Chair: Francesco Guerra*

9:30 - 10:15	Giuseppe Mussardo	Expectation values in the Lieb-Liniger Bose gas
10:15 - 11:00	Abolfazl Bayat	Entanglement in Kondo Spin Chain Model

11:00 - 11:30

Coffee Break

11:30 - 12:15	Angelo Vulpiani	About the dichotomies chaos-noise and discrete-continuous
12:15 - 13:00	Mario Rasetti	New frontiers for quantum information processing: from topological invariants to the theory of formal languages

13:00

Lunch