Quantum Computing @ INFN

Wednesday, 30 October 2024

Quantum Simulation - **Sala Elettra (14:30 - 16:15)**

time	[id] title	presenter
14:30	[34] INVITED: Quantum Computing in theoretical HEP	SILVI, Pietro
15:05	[10] Tensor Network methods for quantum circuit emulation, hybrid-architectures and quantum systems in non-Markovian regimes.	Dr MAGNIFICO, Giuseppe
15:25	[13] Fault-tolerant simulation of Lattice Gauge Theories with gauge covariant codes	SPAGNOLI, Luca
15:45	[32] Quantum Many-Body Scarring in a Non-Abelian Lattice Gauge Theory	CATALDI, Giovanni

Quantum Simulation - **Sala Elettra (16:45 - 18:30)**

time	[id] title	presenter
16:45	[15] Quantum simulation of strongly-correlated vortex phases with atoms in optical lattices	DI LIBERTO, Marco Fedele
17:05	[9] Solving the homogeneous Bethe-Salpeter equation with a quantum annealer	FORNETTI, Filippo
17:25	[22] Approximate inverse measurement channel for shallow shadows	PIROLI, Lorenzo
17:45	[27] Neural quantum Monte Carlo algorithms for quantum simulators	BRODOLONI, Luca
18:05	[19] Exponential optimization of adiabatic quantum-state preparation	CUGINI, Davide

Thursday, 31 October 2024

Quantum Simulation - Sala Elettra (11:20 - 13:20)

time	[id] title	presenter
11:20	[12] How to Measure Reflection and Transmission Amplitudes in a Digital Quantum Simulation	Mr STAMPIGGI, Andrea
11:40	[24] Boost Quantum TEA performance via flexible choices for numerical libraries	JASCHKE, Daniel
12:00	[26] Two interesting applications of stochastic unravelling in quantum computing	DONADI, Sandro
12:20	[21] Optimisation of ultrafast singlet fission in 1D rings towards unit efficiency	CAMPAIOLI, Francesco
12:40	[25] Entanglement in finite-temperature Rydberg atom arrays	REINIĆ, Nora
13:00	[20] The role of non-stabilizerness in Bell's inequality violation	CUSUMANO, Stefano