



# Lattice 2024

## Monday 29 July 2024

### Quantum computing and quantum information: TR7 (11:15 - 13:15)

-Conveners: Zohreh Davoudi

time	[id] title	presenter
11:15	[57] Quantum Hamiltonian Truncation	INGOLDBY, James
11:35	[243] Quantum Error Correction and $Z(2)$ Lattice Gauge Theories	KIM, Seyong
11:55	[265] Noise-aware mixed state quantum computation and its applications	CLEMENTE, Giuseppe
12:15	[357] Gauge field digitization in the Hamiltonian limit	PESZNYÁK, Dávid
12:35	[234] Euclidean Monte Carlo informed ground state preparation for quantum simulation	GUPTA, Navya
12:55	[398] Quantum Many-Body Scars in 2+1D Gauge Theories	PINTO BARROS, Joao

### Quantum computing and quantum information: TR7 (14:15 - 16:15)

-Conveners: Bipasha Chakraborty

time	[id] title	presenter
14:15	[6] Quantum Simulation of Large N Lattice Gauge Theories	CIAVARELLA, Anthony
14:35	[32] Duality and entanglement in lattice gauge theories	BULGARELLI, Andrea
14:55	[268] Towards quantum simulation of lower-dimensional supersymmetric lattice models	Dr MENDICELLI, Emanuele
15:15	[425] Dynamics of the Sachdev-Ye-Kitaev model	ASADUZZAMAN, Muhammad
15:35	[486] Determining entanglement measures in $SU(N)$ lattice gauge theory for $N > 4$ : difficulties and solutions	Dr RINDLISBACHER, Tobias
15:55	[256] Symmetries of the Loop-string-hadron Framework: Towards Quantum Simulating Gauge Theories	RAYCHOWDHURY, Indrakshi

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## Quantum computing and quantum information: TR7 (11:15 - 12:35)

-Conveners: Shailesh Chandrasekharan

time	[id] title	presenter
11:15	[429] Handling challenges for robust and reliable quantum simulation of gauge theories on 1+1D and 2+1D	CHAKRABORTY, Bipasha
11:35	[448] Simulating an SO(3) Quantum Link Model with Dynamical Fermions in 2+1 Dimensions	VAN GOFFRIER, Graham
11:55	[93] Computing theta-dependent mass spectrum of the 2-flavor Schwinger model in the Hamiltonian formalism	Dr MATSUMOTO, Akira

## Quantum computing and quantum information: Flex2 (16:15 - 17:15)

-Conveners: Emanuele Mendicelli

time	[id] title	presenter
16:15	[317] Simulating (1+1)d Abelian Gauge Theories with Cluster Algorithms	BUDDE, Thea
16:35	[254] Quantum computational resources for lattice QCD in the strong-coupling limit	FROMM, Michael
16:55	[253] Scattering wave packets of hadrons in gauge theories: Preparation on a quantum computer	HSIEH, Chung-Chun