

C3NT workshop: Quantum Information Science in High Energy Nuclear Physics (QIS-HENP)

Monday, 15 June 2026

Talks - 9409 (09:10 - 10:20)

time	[id] title	presenter
09:10	[19] Quantum Algorithms for Event Generators at High-Energy Colliders	RODRIGO, Germán
09:45	[11] TBA (Xu-Guang)	HUANG, Xu-Guang

Talks - 9409 (10:50 - 12:00)

time	[id] title	presenter
10:50	[16] Experimental applications of quantum algorithms in high-energy physics	OKAWA, Hideki
11:25	[26] Defining quantum advantage in microscopic nuclear theory	VARY, James

Talks - 9409 (13:30 - 15:15)

time	[id] title	presenter
13:30	[18] TBA (Enrique)	RICO ORTEGA, Enrique
14:05	[27] Real-time correlation functions on quantum computers and neural networks	WANG, Xiaoyang
14:40	[28] Discrete non-Abelian lattice gauge theories: a playground for high-energy, many-body and quantum information science.	WAUTERS, Matteo

Talks - 9409 (15:45 - 16:55)

time	[id] title	presenter
15:45	[31] Tensor network algorithms for high-dimensional HEP quantum simulations	MONTANGERO, Simone
16:20	[12] Quantum entanglement of partons within strongly coupled QFTs	LI, Yang

Tuesday, 16 June 2026

Talks - 9409 (09:00 - 10:10)

time	[id] title	presenter
09:00	[30] TBA (Zhen-Sheng)	YUAN, Zhen-Sheng
09:35	[10] Hamiltonian lattice gauge theory: Application to nonequilibrium and dense QCD matter	HIDAKA, Yoshimasa

Talks - 9409 (13:30 - 15:15)

time	[id] title	presenter
13:30	[17] Quantum simulation of simple nuclear reactions with realistic state dependent potentials	PEDERIVA, Francesco
14:05	[9] Observation of glueballs and string breaking in 2+1D lattice gauge theories on a quantum computer	HALIMEH, Jad
14:40	[23] Approach to thermalization using quantum dynamics	SHI, Shuzhe

Talks - 9409 (15:45 - 16:55)

time	[id] title	presenter
15:45	[24] Lattice QED with staggered and Wilson fermions: finite density and topology	SINGH, Simran
16:20	[14] TBA (Di)	LUO, Di

Wednesday, 17 June 2026

Talks - 9409 (09:00 - 10:10)

time	[id] title	presenter
09:00	[20] TBA (Alessandro)	ROGGERO, Alessandro
09:35	[8] Quantum simulations of various topics in 1+1D gauge theory	GUO, Xingyu

Talks - 9409 (10:40 - 11:50)

time	[id] title	presenter
10:40	[5] Renormalized dual basis and continuum limit	CELI, Alessio
11:15	[22] Floquet systems and lattice fermions	SEN, Srimoyee

Talks - 9409 (13:30 - 15:15)

time	[id] title	presenter
13:30	[1] Light-Front Hamiltonian Approach to QCD Jets in the Quantum Era	LI, Meijian
14:05	[4] Toward quantum simulations of Maxwell-Chern-Simons theory: constant modes and gauge field truncation	BULGARELLI, Andrea
14:40	[3] Spin-State Teleportation at MeV Energies via Entanglement Generation and Manipulation Between Protons	BAI, Dong

Talks - 9409 (15:45 - 16:55)

time	[id] title	presenter
15:45	[6] TBA (Yahui)	CHAI, Yahui
16:20	[29] TBA (Bin)	WU, Bin

Thursday, 18 June 2026

Talks - 9409 (09:00 - 10:10)

time	[id] title	presenter
09:00	[32] TBA (Abolfazl)	BAYAT, Abolfazl
09:35	[13] Exponentially improved quantum simulation of scalar QFT	LI, Ying-Ying

Talks - 9409 (10:40 - 11:50)

time	[id] title	presenter
10:40	[21] TBA (Manuel)	SCHNEIDER, Manuel
11:15	[25] TBA (Tianyin)	LI, Tianyin

Talks - 9409 (13:30 - 14:40)

time	[id] title	presenter
13:30	[7] Quantum Algorithms for Nuclear Many-Body Structure, Reactions, and Dynamics	DU, Weijie
14:05	[15] Symmetric mass generation as a multicritical point with enhanced symmetry	MAITI, Sandip