

KEK-THEORY Workshop 2024

Wednesday, 11 December 2024

Plenary Session: I - K03 Seminar Hall (09:30 - 10:30)

-Conveners: Shin-ichiro Akiyama

time	[id] title	presenter
09:30	[1] Tensor renormalization group and application to elementary particle physics	Prof. TAKEDA, Shinji

Plenary Session: II - K03 Seminar Hall (10:45 - 11:45)

-Conveners: Shin-ichiro Akiyama

time	[id] title	presenter
10:45	[2] Recent progress in tensor network approaches for condensed matter physics	Dr OKUBO, Tsuyoshi

Plenary Session: III - K03 Seminar Hall (13:30 - 14:30)

-Conveners: Shin-ichiro Akiyama

time	[id] title	presenter
13:30	[3] Bosonization revisited: application to the sign problem and lattice chiral fermion	Dr OHATA, Hiroki

Thursday, 12 December 2024

Plenary Session: I - K03 Seminar Hall (09:30 - 10:30)

-Conveners: Sinya Aoki

time	[id] title	presenter
09:30	[4] Partially fault-tolerant quantum computing architecture	Dr AKAHOSHI, Yutaro

Plenary Session: II - K03 Seminar Hall (10:45 - 11:45)

-Conveners: Sinya Aoki

time	[id] title	presenter
10:45	[5] Quantum Error Correction and Holography	Prof. NISHIOKA, Tatsuma

Plenary Session: III - K03 Seminar Hall (13:30 - 14:30)

-Conveners: Sinya Aoki

time	[id] title	presenter
13:30	[6] Decoding quantum information from chaos: beyond the standard situation	Prof. NAKATA, Yoshifumi

Friday, 13 December 2024

Plenary Session: I - K03 Seminar Hall (09:00 - 10:00)

-Conveners: Kantaro Ohmori

time	[id] title	presenter
09:00	[7] Tensor Networks as Conceptual and Computational Tools for Statistical Physics	Prof. OSHIKAWA, Masaki

Plenary Session: II - K03 Seminar Hall (10:15 - 11:15)

-Conveners: Kantaro Ohmori

time	[id] title	presenter
10:15	[8] Advancements in Numerical Methods: Synergy of Tensor Networks and Quantum Algorithms	Prof. UEDA, Hiroshi

Plenary Session: III - K03 Seminar Hall (11:30 - 12:30)

-Conveners: Kantaro Ohmori

time	[id] title	presenter
11:30	[9] Some rigorous and numerical results for renormalization groups of tensor networks	Prof. RYCHKOV, Slava