

LBLN-UTokyo Quantum Computing Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Monday 30 October 2023 11:00 (5 minutes)

Presenter: TERASHI, Koji (University of Tokyo (JP))

Contribution ID: 2

Type: **not specified**

Gauge invariant formulations of non-Abelian lattice gauge theories

Monday 30 October 2023 11:05 (30 minutes)

Presenter: BAUER, Christian Walter (Lawrence Berkeley National Lab. (US))

Contribution ID: 3

Type: **not specified**

Discussion

Monday 30 October 2023 11:35 (15 minutes)

Contribution ID: 4

Type: **not specified**

TBD

Monday 30 October 2023 11:50 (30 minutes)

Presenter: Dr NAGANO, Lento (University of Tokyo (JP))

Contribution ID: 5

Type: **not specified**

Discussion

Monday 30 October 2023 12:20 (15 minutes)

Contribution ID: 6

Type: **not specified**

Lunch

Monday 30 October 2023 12:35 (1h 25m)

Contribution ID: 7

Type: **not specified**

AIDE-QC and QSA at LBNL

Monday 30 October 2023 14:00 (30 minutes)

Presenter: DE JONG, Wibe ((Lawrence Berkeley National Lab. (US)))

Contribution ID: **8**

Type: **not specified**

Discussion

Monday 30 October 2023 14:30 (15 minutes)

Contribution ID: 9

Type: **not specified**

Conserved charges in the real-device quantum simulation of integrable spin chains

Monday 30 October 2023 14:45 (30 minutes)

Presenter: OKUDA, Takuya (University of Tokyo)

Contribution ID: **10**

Type: **not specified**

Discussion

Monday 30 October 2023 15:15 (15 minutes)

Contribution ID: **11**

Type: **not specified**

Break

Monday 30 October 2023 15:30 (30 minutes)

Contribution ID: 12

Type: **not specified**

Quantum Simulation of Schwinger model & Energy Spectrum

Monday 30 October 2023 16:00 (30 minutes)

Presenter: HONDA, Masazumi (Kyoto U. (JP))

Contribution ID: **13**

Type: **not specified**

Discussion

Monday 30 October 2023 16:30 (15 minutes)

Contribution ID: 14

Type: **not specified**

Quantum Simulation of Finite Temperature Schwinger Model via Quantum Imaginary Time Evolution

Monday 30 October 2023 16:45 (30 minutes)

Presenter: PEDERSEN, Juan William (University of Tokyo (JP))

Contribution ID: 15

Type: **not specified**

Discussion

Monday 30 October 2023 17:15 (15 minutes)

Contribution ID: **16**

Type: **not specified**

Dinner

Monday 30 October 2023 18:00 (2 hours)

Contribution ID: 17

Type: **not specified**

Effectively Leveraging NISQ Hardware for Quantum Simulations of Gauge Theories

Tuesday 31 October 2023 09:00 (30 minutes)

Presenter: GUSTAFSON, Erik (Fermi National Accelerator Lab. (US))

Contribution ID: **18**

Type: **not specified**

Discussion

Tuesday 31 October 2023 09:30 (15 minutes)

Contribution ID: 19

Type: **not specified**

Enhancing qubit circuits with qutrits

Tuesday 31 October 2023 09:45 (30 minutes)

Presenter: IIYAMA, Yutaro (University of Tokyo (JP))

Contribution ID: **20**

Type: **not specified**

Discussion

Tuesday 31 October 2023 10:15 (15 minutes)

Contribution ID: **21**

Type: **not specified**

Break

Tuesday 31 October 2023 10:30 (30 minutes)

Contribution ID: 22

Type: **not specified**

BQSKit Overview

Tuesday 31 October 2023 11:00 (30 minutes)

Presenter: IANCU, Costin (Lawrence Berkeley National Lab. (US))

Contribution ID: 23

Type: **not specified**

Discussion

Tuesday 31 October 2023 11:30 (15 minutes)

Contribution ID: **24**

Type: **not specified**

Lunch

Tuesday 31 October 2023 11:45 (1h 45m)

Contribution ID: 25

Type: **not specified**

TBD

Tuesday 31 October 2023 13:30 (30 minutes)

Presenter: KAJI, Toshiaki (University of Tokyo (JP))

Contribution ID: 26

Type: **not specified**

Discussion

Tuesday 31 October 2023 14:00 (15 minutes)

Contribution ID: 27

Type: **not specified**

Enhanced quantum circuit compilation with Ising machines

Tuesday 31 October 2023 14:15 (30 minutes)

Presenter: NAITO, Soshun (University of Tokyo (JP))

Contribution ID: **28**

Type: **not specified**

Discussion

Tuesday 31 October 2023 14:45 (15 minutes)

Contribution ID: 29

Type: **not specified**

Break

Tuesday 31 October 2023 15:00 (30 minutes)

Contribution ID: **30**

Type: **not specified**

Talk 12

Contribution ID: **31**

Type: **not specified**

Discussion

Contribution ID: 32

Type: **not specified**

Extra Discussion (future plan, etc.)

Tuesday 31 October 2023 15:30 (45 minutes)

Contribution ID: **33**

Type: **not specified**

Concluding

Tuesday 31 October 2023 16:15 (10 minutes)