

Quantum Entanglement at Collider Energies



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome from CFNS

Presenter: DESHPANDE, Abhay (Stony Brook University)

Session Classification: Monday Morning

Contribution ID: 2

Type: **not specified**

Entanglement negativity - from fermionic systems to tensor networks

Session Classification: Monday Morning

Contribution ID: 3

Type: **not specified**

Entanglement and eigenstate thermalization

Session Classification: Monday Morning

Contribution ID: 4

Type: **not specified**

Novel collective phenomena at the LHC and their implications to quantum entanglement

Session Classification: Monday Morning

Contribution ID: 5

Type: **not specified**

Recent experimental results and outlook from e^+e^- annihilation

Session Classification: Monday Morning

Contribution ID: 6

Type: **not specified**

Welcome from CFNS

Monday, 10 September 2018 09:00 (10 minutes)

Presenter: DESHPANDE, Abhay (Stony Brook University)

Contribution ID: 7

Type: **not specified**

Entanglement negativity - from fermionic systems to tensor networks

Contribution ID: 8

Type: **not specified**

Entanglement and eigenstate thermalization

Contribution ID: 9

Type: **not specified**

Entanglement negativity - from fermionic systems to tensor networks

Monday, 10 September 2018 09:10 (40 minutes)

Presenter: RYU, S.

Session Classification: Day 1 - Session 1

Contribution ID: **10**

Type: **not specified**

Entanglement and eigenstate thermalization

Monday, 10 September 2018 09:50 (40 minutes)

Presenter: POLKOVNIKOV, A.

Session Classification: Day 1 - Session 1

Contribution ID: 11

Type: **not specified**

Novel collective phenomena at the LHC and their implications to quantum entanglement

Monday, 10 September 2018 11:00 (40 minutes)

Presenter: LI, W.

Session Classification: Day 1 - Session 1

Contribution ID: 12

Type: **not specified**

Recent experimental results and outlook from e^+e^- annihilation

Monday, 10 September 2018 11:40 (40 minutes)

Presenter: VOSSEN, A.

Session Classification: Day 1 - Session 1

Contribution ID: 13

Type: **not specified**

Quantum Tomography with Collider Data

Monday, 10 September 2018 14:10 (40 minutes)

Presenter: RALSTON, J.

Session Classification: Day 1 - Session 2

Contribution ID: 14

Type: **not specified**

DIS as a probe of entanglement

Monday, 10 September 2018 14:50 (40 minutes)

Presenter: LEVIN, E.

Session Classification: Day 1 - Session 2

Contribution ID: 15

Type: **not specified**

Entanglement in spin chains

Monday, 10 September 2018 16:00 (40 minutes)

Presenter: KOREPIN, V.

Session Classification: Day 1 - Session 2

Contribution ID: 16

Type: **not specified**

Entanglement dynamics of hadronization

Monday, 10 September 2018 16:40 (40 minutes)

Presenter: FLOERCHINGER, S.

Session Classification: Day 1 - Session 2

Contribution ID: 17

Type: **not specified**

Towards simulating QFT's with photons and atoms

Tuesday, 11 September 2018 09:00 (40 minutes)

Presenter: FIGUEROA, E.

Session Classification: Day 2 - Session 1

Contribution ID: **18**

Type: **not specified**

Entanglement with hidden matter and the constants of nature

Tuesday, 11 September 2018 09:40 (40 minutes)

Presenter: BALASUBRAMANIAN, V.

Session Classification: Day 2 - Session 1

Contribution ID: 19

Type: **not specified**

Correlations in cold atoms: experiment

Tuesday, 11 September 2018 10:50 (40 minutes)

Presenter: SCHMIEDMAYER, J.

Session Classification: Day 2 - Session 1

Contribution ID: 20

Type: **not specified**

Thermal behaviour and entanglement in Pb-Pb and p-p collisions

Tuesday, 11 September 2018 11:30 (40 minutes)

Presenter: PAJARES, C.

Session Classification: Day 2 - Session 1

Contribution ID: 21

Type: **not specified**

Quantum simulation of the universal features of the Polyakov loop

Tuesday, 11 September 2018 14:00 (40 minutes)

Presenter: BAZAVOV, A.

Session Classification: Day 2 - Session 2

Contribution ID: 22

Type: **not specified**

Is There Quantum Entanglement in Parton Distribution Functions?

Tuesday, 11 September 2018 14:40 (40 minutes)

Presenter: CHEN, J.-W.

Session Classification: Day 2 - Session 2

Contribution ID: 23

Type: **not specified**

Maximal Entanglement in High Energy Physics

Tuesday, 11 September 2018 15:50 (40 minutes)

Presenter: CERVERA LIERTA, A.

Session Classification: Day 2 - Session 2

Contribution ID: 24

Type: **not specified**

Quantum simulation of the universal features of the Polyakov loop

Presenter: BAZAVOV, A.

Session Classification: Day 2 - Session 2

Contribution ID: 25

Type: **not specified**

Universality far from equilibrium and entanglement entropy

Wednesday, 12 September 2018 15:50 (40 minutes)

Summary

Presenter: BERGES, J.

Session Classification: Day 3 - Session 2

Contribution ID: 26

Type: **not specified**

Multipartite Entanglement at Quantum Criticality

Wednesday, 12 September 2018 14:00 (40 minutes)

Presenter: HAUKE, P.

Session Classification: Day 3 - Session 2

Contribution ID: 27

Type: **not specified**

Large Gauge Symmetry and Memory Effects in Electron-Ion Collisions

Wednesday, 12 September 2018 14:40 (40 minutes)

Presenter: PATE, M.

Session Classification: Day 3 - Session 2

Contribution ID: 28

Type: **not specified**

Quantum chaos and entanglement generation in matrix quantum mechanics

Wednesday, 12 September 2018 10:50 (40 minutes)

Presenter: BUIVIDOVICH, P.

Session Classification: Day 3 - Session 1

Contribution ID: 29

Type: **not specified**

Low-x from Strings at the EIC

Wednesday, 12 September 2018 11:30 (40 minutes)

Presenter: ZAHED, I.

Session Classification: Day 3 - Session 1

Contribution ID: **30**

Type: **not specified**

Quantum field theory with quantum computing

Wednesday, 12 September 2018 09:00 (40 minutes)

Summary

Presenter: SAVAGE, M.

Session Classification: Day 3 - Session 1

Contribution ID: 31

Type: **not specified**

PEPS with Gauge Symmetries: Tensor Network Studies of Lattice Gauge Theories

Wednesday, 12 September 2018 09:40 (40 minutes)

Presenter: ZOHAR, E.

Session Classification: Day 3 - Session 1

Contribution ID: 32

Type: **not specified**

Quantum simulations of lattice gauge theories

Tuesday, 11 September 2018 16:30 (40 minutes)

Presenter: MUSCHIK, C.

Session Classification: Day 2 - Session 2