

Session Program

4-10 Feb 2023



Quantum Information Processing 2023

Parallel 7B

Ghent University, UFO
Sint-Pietersnieuwstraat 33, 9000 Gent

Thursday 9 February

15:30

Parallel 7B

Session | **Location:** Blandijn, Auditorium 2, Blandijnberg 9000, 9000 Gent

15:30–15:55

Long-range entanglement from finite-depth circuits and measurements: from theory to quantum devices

Speaker

Nathanan Tantivasadakarn, Ryan Thorngren, Ruben Verresen and Ashvin Vishwanath.

16:00–16:25

Topological phases of unitary dynamics: Classification in Clifford category

Speaker

Jeongwan Haah.

16:30–16:55

Dualities in one-dimensional quantum lattice models: symmetric Hamiltonians and matrix product operator intertwiners

Speaker

Laurens Lootens, Clement Delcamp, Gerardo Ortiz and Frank Verstraete.

17:00–17:25

Universal lower bound on topological entanglement entropy

Speaker

Isaac Kim, Michael Levin, Ting-Chun Lin, Daniel Ranard and Bowen Shi.

17:30–17:55

Entanglement area law for 1D gauge theories and bosonic systems

Speaker

Nilin Abrahamsen, Ning Bao, Yuan Su, Yu Tong and Nathan Wiebe.

18:00