

Thursday 7 March

09:00 **Talks** Session **Welcome and Workshop Overview** 09:00-09:05 **Speakers** Matthew Low, Tao Han 09:05-09:40 A Welcome Story Speaker Tao Han 09:45-10:20 Quantum Mechanics in Field Theory: Quantum? Field Theory **Speaker** Juan Ramon Munoz De Nova 10:25 10:55 **Talks** Session Observation of Quantum Entanglement in ttbar pairs at ATLAS 10:55-11:30 Speaker Dr James William Howarth 11:35-12:10 Perspectives on Quantum Entanglement Speaker Andreas Werner Jung 12:15 14:00 **Talks Session Quantum Information with Electroweak and Higgs Bosons** 14:00-14:35 Speaker Alan Barr 14:40-15:15 When Theory Becomes Reality: Measuring Quantum Information Concepts with \$t \bar t\$ Speaker Yoav Afik 15:20 15:50 **Talks Session Probing new physics through entanglement** 15:50-16:25 Speaker Rafael Aoude 16:30

Friday 8 March



Saturday 9 March

09:00

Talks

Session

09:00-09:35

Real-time non-perturbative dynamics of jet production in the Schwinger model: from quantum entanglement to thermalization

Speaker

Adrien Florio

09:40-10:15

Quantum-probabilistic Hamiltonian learning for generative modelling and anomaly detection

Speaker

Jack Y. Araz

10:20

10:50

Talks

Session

10:50-11:25

Quantum Entanglement and Bell Inequality Violation in Semi-Leptonic Top Decays

Speaker

Arthur Wu

11:30-12:05

Entanglement Suppression, Enhanced Symmetry and a Standard-Model-like Higgs Boson

Speaker

Carlos E.M. Wagner

12:10