

Session Program

26-27 Feb 2026

Quantum Applications Workshop 2026

Frontiers of Physics

Lecture hall 5

Department of Physical Sciences, Earth and Environment - University of Siena Physics Section, Via
Roma 56, Siena Siena

Thursday 26 February

14:30

Frontiers of Physics

Session |**Location:** Lecture hall 5, Department of Physical Sciences, Earth and Environment - University of Siena Physics Section, Via Roma 56, Siena Siena

14:30–14:55

Quantum Entanglement Beyond Kinematics: A Dynamical Hypothesis in (3,2)-Dimensional Spacetime

Speaker

Prof. Marco Pettini

14:55–15:20

Quantum Sensing for Particle Physics: the NAMASSTE R&D Project

Speaker

Giuseppe Latino

15:20–15:45

Quantum effective action for the Josephson dynamics

Speaker

Luca Salasnich

15:45–16:10

Improving VQE Ground State Accuracy via Soft-Coded Orthogonal Subspace Representations

Speaker

Mr Marco Intini

16:10

Friday 27 February

15:40

Frontiers of Physics

Session |**Location:** Lecture hall 5, Department of Physical Sciences, Earth and Environment - University of Siena Physics Section, Via Roma 56, Siena Siena

15:40–16:05

Universal Properties and Phase Diagrams of Quantum Long-Range Systems

Speaker

Prof. Andrea Trombettoni

16:05–16:30

Entanglement Properties of Quantum Complex Networks

Speaker

Lucio De Simone

16:30–16:55

Multipartite entanglement generation in inflationary scenarios

Speaker

Alessio Belfiglio

16:55–17:20

Entanglement Distance: A Geometric Framework for Efficient Multipartite Entanglement Estimation

Speaker

Lorenzo Capra

17:20–17:45

Decoherence mitigation via repeated joint weak measurements in entangled two-qubit register

Speaker

Oleksandr Konovalenko

17:50