

Session Program

15-16 Sept 2025

**CCP-TEPP Knowledge Exchange Workshop for
Computational Theoretical and Experimental
Particle Physics**

***Applications of quantum computing for
particle physics research***

Daresbury Labs, Daresbury Laboratory, Cheshire, Brunner-Mond

Tuesday 16 September

09:00

Applications of quantum computing for particle physics research

Session | **Location:** Daresbury Labs, Daresbury Laboratory, Cheshire, Brunner-Mond | **Convener:** Benjamin Morgan

09:00–09:30

Applications of quantum computation for lattice gauge theories and high energy physics

Speaker

Bipasha Chakraborty

09:30–10:00

Quantinuum Systems and their benefits for Lattice Gauge Theories

Speaker

Enrico Rinaldi

10:00–10:30

Beyond Qubits: Exploring Diverse Quantum Architectures for Neutrino Scattering Simulations

Speaker

Sam Godwood

10:30–10:40

Panel Q&A

Speakers

Bipasha Chakraborty, Enrico Rinaldi, Sam Godwood

10:40