



# AI and Quantum Information for Particle Physics

## Tuesday, 14 November 2023

### Quantum Computing (14:00 - 17:30)

-Conveners: Jesse Stryker

time	[id] title	presenter
14:00	[11] Theory-driven Quantum Machine Learning for HEP	Dr ARAZ, Jack Y.
15:00	Coffee & Discussion	
15:30	[12] Digitization and Propagation in quantum computing for lattice gauge theories	Dr LI, Ying-Ying

# Wednesday, 15 November 2023

## Quantum Computing (10:00 - 12:30)

-Conveners: Yingying Li

time	[id] title	presenter
10:00	[29] Combinatorial optimization using QC for collider physics	PARK, Myeonghun
11:00	Coffee & Discussion	
11:30	[6] Expressing non-Abelian gauge-field dynamics in the quantum age	Dr STRYKER, Jesse R.

# Thursday, 16 November 2023

## **Quantum Computing (15:00 - 17:30)**

-Conveners: Jack Y. Araz

time	[id] title	presenter
15:00	[5] Quantum computing for high-energy physics	Dr SPANNOWSKY, Michael
16:00	Coffee & Discussion	

# Friday, 17 November 2023

## Quantum Computing (11:50 - 12:30)

-Conveners: Myeonghun Park

time	[id] title	presenter
11:50	[28] Quantum Amplitude Amplification Operators: Quantum Search in the NISQ era	KWON, Hyeokjea