

# **Quantum Tracking Mini Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and Coffee

Contribution ID: 2

Type: **not specified**

## Extending the Simulation Toy

*Thursday, 11 June 2026 11:15 (30 minutes)*

**Presenter:** SCRIVEN, George

Contribution ID: 3

Type: **not specified**

## Optimizing the 1bit-HHL circuit

*Thursday, 11 June 2026 11:45 (30 minutes)*

**Presenter:** CHIOTOPOULOS, Xenofon

Contribution ID: 4

Type: **not specified**

## Block Encoding

*Thursday, 11 June 2026 13:30 (30 minutes)*

**Presenter:** QIU, Shi

Contribution ID: 5

Type: **not specified**

## Search by Triplet

*Thursday, 11 June 2026 10:45 (30 minutes)*

**Presenter:** WATERLAAT, Mark

Contribution ID: 6

Type: **not specified**

## **Blueprint for an integrated quantum-centric supercomputer**

*Thursday, 11 June 2026 15:45 (45 minutes)*

**Presenters:** CHANCÉ, Alain; BLOMMAART, Jan

Contribution ID: 7

Type: **not specified**

## Near-term Quantum Algorithms for Particle Track Reconstruction

*Thursday, 11 June 2026 15:00 (45 minutes)*

**Primary author:** LIPARDI, Vincenzo (Maastricht University)

**Co-authors:** MESTEL, David (Maastricht University); STAMOULIS, Georgios Stamoulis (DKE); WINANDS, Mark

**Presenter:** LIPARDI, Vincenzo (Maastricht University)

Contribution ID: **8**

Type: **not specified**

## **Introduction**

*Thursday, 11 June 2026 10:30 (15 minutes)*

**Presenter:** MERK, Marcel

Contribution ID: 9

Type: **not specified**

# Linear Optimization for Particle Reconstruction

*Thursday, 11 June 2026 14:00 (30 minutes)*

**Presenter:** NOOMEN, Ella

Contribution ID: **10**

Type: **not specified**

## Discussion and Closing

*Thursday, 11 June 2026 16:30 (20 minutes)*

Contribution ID: 11

Type: **not specified**

## Track Finding with a Hough Transform

*Thursday, 11 June 2026 14:30 (15 minutes)*

**Presenter:** NICOTRA, Davide