

Winter School on Contemporary Quantum Algorithms and Applications

Wednesday February 22, 2023

- 8:00–8:55 *Check-in/Breakfast (hosted by IPAM)*
- 8:55–9:00 *Welcome & Opening Remarks: Dean Miguel García-Garibay (Dean of Physical Sciences, UCLA) and Dima Shlyakhtenko (Director, IPAM)*
- 9:00–11:30 **Jens Palsberg** (University of California, Los Angeles (UCLA))
Introduction to Quantum Algorithms
- 10:00–10:15 *Break*
- 11:30–12:30 *Hands On Session*
- 12:50–2:00 *Lunch (on your own)*
- 2:00–4:30 **Bobak Toussi Kiani** (Massachusetts Institute of Technology)
Quantum Machine Learning
- 3:00–3:15 *Break*
- 4:40–5:30 *Problem Sets / Working Groups*
- 5:40–6:40 *Reception (Location: IPAM Lobby)*

Thursday February 23, 2023

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–11:30 **Nathan Wiebe** (University of Toronto)
Quantum Simulation
- 10:00–10:15 *Break*
- 11:30–12:30 *Hands On Session*
- 12:50–2:00 *Lunch (on your own)*
- 2:00–4:30 **Bill Fefferman** (University of Chicago)
Quantum Complexity Theory
- 3:00–3:15 *Break*
- 4:40–5:30 *Problem Sets / Working Groups*
- 6:00–9:00 *Dinner hosted by CIQC - Location: JD Morgan Athletics Center*



Friday February 24, 2023

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–11:30 **Scott Aaronson** (University of Texas at Austin)
NISQ Quantum Speedup
- 10:00–10:15 *Break*
- 11:30–12:30 *Hands On Session*

