## QAMF workshop schedule

| Friday, July 23 ${ }^{\text {rd }}$ @ Henn 201 |  |  |
| :--- | :--- | :--- |
| Morning - Session 1: Models of quantum computation - Adiabatic |  |  | \left\lvert\, | 9:00 AM - 9:45 AM | Boris Altshuler (Columbia U) |  |
| :--- | :--- | :--- | \(\left.\begin{array}{l}Adiabatic quantum optimization and <br>

Anderson localization\end{array}\right.\right\}\)

| Saturday July 24 @ Henn 201 |  |  |
| :---: | :---: | :---: |
| 9:00 AM - 9:45 AM | David Poulin (Université de Sherbrooke) | Quantum Metropolis Sampling: An algorithm to simulate thermal systems with a quantum computer |
| 9:45 AM - 10:30 AM | Maarten van den Nest (Max-Planck-Institut für Quantenoptik) | Simulating quantum computers with probabilistic methods |
| 10:30-11:00 AM | COFFEE BREAK |  |
| 11:00 AM - 11:30 AM | Gorjan Alagic <br> (University of Waterloo) | Quantum Algorithms from Topological Quantum Field Theories |
| 11:30 AM - 11:40 AM | QUICK BREAK |  |
| 11:40 AM - 12:10 PM | Vincenzo Tamma <br> (University of Maryland, Università degli Studi di Bari) | Factoring numbers with periodic interferograms |
| Afternoon - Session 4: Models of quantum computation - Measurement-based |  |  |
| 2:00 PM - 2:45 PM | Dan Browne (University College London) | Correlations in Measurement-Based Quantum Computing and Bell Inequalities |
| 2:45 PM - 3:15 PM | Ernesto Galvao (Univ. Federal Fluminense, Brazil) | Closed time-like curves in measurementbased quantum computation |
| 3:15 PM - 4PM | COFFEE BREAK |  |
| 4:00 PM - 4:30 PM | Akimasa Miyake (Perimeter Institute) | Quantum computation on the edge of a symmetry-protected topological order |
| Early Evening - Session 5: Poster Session at the Abdul Ladha Science Student Centre |  |  |
| 4:30pm - 5:00pm | BREAK, Poster Set Up |  |
| 5:00pm -6:30pm | Poster Session |  |

## Sunday July 25 @ IBLC 281

| 9:00 AM - 9:30 AM | Eduardo Mucciolo (University of Central Florida) | For How Long Is It Possible To Quantum Compute? |
| :---: | :---: | :---: |
| 9:30 AM - 10:00 AM | Guillaume Duclos-Cianci (Université de Sherbrooke) | Fast Decoders for Topological Quantum Codes |
| 10:00 AM - 10:30 AM | Héctor Bombín (Perimeter Institute) | Twists in topological codes |
| 10:30-11:00 AM | COFFEE BREAK |  |
| Morning - Session 7, Algorithms II |  |  |
| 11:00 AM - 11:45 AM | Pawel Wocjan (University of Central Florida) | Quantum Algorithm for Preparing Thermal Gibbs States |
| 11:45 AM - 12:15 PM | Viv Kendon (University of Leeds) | Fractional scaling of quantum walks on percolation lattices |
| 12:15 PM - 12:25 PM | QUICK BREAK |  |
| 12:25 PM - 12:55 PM | Michael Mullan (University of Colorado at Boulder) | A Numerical Quantum and Classical Adversary |
| Afternoon - Session 8, Lab tour at D-wave (workshop participants) |  |  |
| Afternoon | Bus pick up at 2pm outside of the UBC Bookstore. Tour will start at 3pm (35pm). |  |

