

# Quantum Matter Day 2017

October 3, 2017

Perimeter Institute

## SCHEDULE

Tuesday, October 3, 2017

Time	Event	Location
9:30 – 9:40am	<i>Welcome and Opening Remarks</i>	Bob Room
9:40 – 9:50am	<b>Beni Yoshida</b> , Perimeter Institute <i>Chaos and black holes</i>	Bob Room
9:50 – 10:00am	<b>Adam Lewis</b> , Perimeter Institute <i>Tensor Networks Under Reslicing</i>	Bob Room
10:00 – 10:10am	<b>Clement Delcamp</b> , Perimeter Institute <i>Renormalization of tensor networks</i>	Bob Room
10:10 – 10:20am	<b>Ashley Milsted</b> , Perimeter Institute <i>Emergence of conformal symmetry in critical spin chains</i>	Bob Room
10:20 – 10:30am	<b>Jon Yard</b> , University of Waterloo <i>Entropy, topological phases and arithmetic</i>	Bob Room
10:30 – 11:00am	Break	
11:00 – 11:10am	<b>Roger Melko</b> , University of Waterloo <i>Computational Condensed Matter Research at Perimeter and UW:</i>	Bob Room
11:10 – 11:20am	<b>Sun-Sik Lee</b> , McMaster University <i>Lifshitz quantum critical metals</i>	Bob Room
11:20 – 11:30am	<b>Pooya Ronagh</b> , Institute for Quantum Computing <i>Quantum Reinforcement Learning</i>	Bob Room
11:30 – 11:40am	<b>Andres Schlieff</b> , McMaster University <i>Universal Features of the Antiferromagnetic Quantum Critical Metal</i>	Bob Room
11:40 – 11:50am	<b>Djordje Radicevic</b> , Perimeter Institute <i>Bosonization on two-dimensional lattices</i>	Bob Room
11:50 – 2:00pm	Break	
2:00 – 2:10pm	<b>Yin-Chen He</b> , Perimeter Institute <i>Phase transition of fractional quantum Hall states on the lattice</i>	Bob Room
2:10 – 2:20pm	<b>Guifre Vidal</b> , Perimeter Institute <i>Tensor networks and happiness</i>	Bob Room

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2:20 – 2:30pm	<b>Louk Rademaker</b> , Perimeter Institute <i>Quantum Thermalization and its breakdown</i>	Bob Room
2:30 – 2:40pm	<b>Vasudev Shyam</b> , Perimeter Institute <i>What kind of RG is GR?</i>	Bob Room
2:40 – 2:50pm	<b>Jess Riedel</b> , Perimeter Institute <i>Toward a precise definition of branches in a many-body wavefunction</i>	Bob Room
2:50 – 3:30pm	Break	
3:30 – 3:40pm	<b>Bianca Dittrich</b> , Perimeter Institute <i>TQFTs, TNWs and Holography in non-perturbative Quantum Gravity</i>	Bob Room
3:40 – 3:50pm	<b>Qi Hu</b> , Perimeter Institute <i>Extracting conformal data from cMERA</i>	Bob Room
3:50 – 4:00pm	<b>Martin Ganahl</b> , Perimeter Institute <i>A fairy tale of continuous Tensor Networks</i>	Bob Room
4:00 – 4:10pm	<b>Aleksander Kubica</b> , Perimeter Institute <i>We should all know topological codes</i>	Bob Room
4:10 – 4:20pm	<b>Timothy Hsieh</b> , Perimeter Institute <i>Topological Bootstrap</i>	Bob Room