



Online Workshop on Quantum Information Science

School of Nano Science, Institute for Research in Fundamental Sciences (IPM)

1 - 2 February 2022

<http://nano.ipm.ac.ir/wqis/index.jsp>

1 February 2022

| Speaker | Time | Title of Talk |
|---------------------|----------|---|
| Klaus Mølmer | 10:00 am | Precision measurements with quantum systems |
| Mingsheng Ying | 11:00 am | Verification of Quantum Programs |
| Matteo Paris | 02:00 pm | Chiral Quantum Walks |
| Gael Sentis Herrera | 03:00 pm | Learning quantum data: unsupervised classification and sequential analysis |
| Emilia Witkowska | 04:00 pm | Spin-squeezing induced by spin-orbit coupling with ultra-cold fermions in a one-dimensional optical lattice |

2 February 2022

| Speaker | Time | Title of Talk |
|-------------|----------|--|
| Simon Haine | 10:00 am | Quantum-Enhanced Atom Interferometry |
| Luca Lepori | 11:00 am | Characterizing multipartite entanglement through correlation functions |
| Piotr Deuar | 12:00 am | Scalable simulations of very large quantum systems: when, how? |

- Times are given in IRST (Iran Standard Time) = UTC + 3:30 Hours