



Midwest Quantum Collaboratory (MQC) Workshop #2

Roadmap to *QU*antum-*RE*ady Scalability (*QURES*)

Thursday, February 24th, 2022

All Times EST

Join here: [Zoom Link](#)

*Each talk below is 30 min (25min + 5min Q&A); in addition, we welcome a 1-slide “brief highlight” (1-2min) from participants during Round Tables 1&2 (interested contributors please email your 1-slider to davidstewart@purdue.edu by February 23rd to be included)

Session 1 (10:00 a.m. – 12:30 p.m.) (Chair: David Stewart; Purdue)

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| 10:00 a.m. – 10:30 a.m. | MQC Board (UM, PU, MSU) – <i>About inventing the QURES?</i> |
| 10:30 a.m. – 11:00 a.m. | Jonas Becker (MSU), Parag Deotare (UM), Zubin Jacob (PU) <i>Quantum transduction</i> |
| 11:00 a.m. – 11:30 a.m. | Alex Ma (PU), Liuyan Zhao (UM) <i>Hybrid quantum-information systems I</i> |
| 12:30 a.m. – 12:00 p.m. | Johannes Pollanen (MSU), Libai Huang (PU) <i>Hybrid quantum-information systems II</i> |
| 12:00 p.m. – 12:30 p.m. | Round Table 1 (moderator: Yong Chen, PU) |

Session 2 (2:00 p.m. – 4:30 p.m.) (Chair: Mack Kira; UM)

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| 2:00 p.m. – 2:30 p.m. | Chen-Lung Hung (PU), Alex Kuzmich (UM) <i>Entanglement distribution</i> |
| 2:30 p.m. – 3:00 p.m. | Andy Weiner (PU), Zetian Mi (UM) <i>All-optical quantum logic/quantum photonics I</i> |
| 3:00 p.m. – 3:30 p.m. | Tyler Cocker (MSU), Grace Liang (PU) <i>All-optical quantum logic/quantum photonics II</i> |
| 3:30 p.m. – 4:00 p.m. | Marcos Dantus (MSU), Ted Norris (UM), Niranjan Shivaram (PU) <i>Quantum/ultrafast spectroscopy</i> |
| 4:00 p.m. – 4:30 p.m. | Round Table 2 (moderator: Johannes Pollanen, MSU) |

Post-workshop discussion for MQC collaborations (all PIs, 4:30 p.m. – 5:00 p.m.)