

Workshop on the intersections of Quantum Information Science and Nuclear Physics

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DeMarco Group Research and the Illinois Quantum and Microelectronics Park

Wednesday, January 14, 2026 8:45 AM (45 minutes)

I will give an overview of research in my group at the University of Illinois, including measurements of mobility in optical lattice Hubbard models, photonic cluster state generation using trapped atomic ions, and work to entangle atomic ions with silicon carbide di-vacancy centers. I will also talk about my role as Chief Technology Officer in launching the Illinois Quantum and Microelectronics Park (IQMP). I will link the IQMP to opportunities in science and technology development and the intersection of academic research and private-sector activity.

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