

## Summer of Molecular Quantum Information Seminar Series 2024

A virtual seminar series for graduate students and postdocs studying quantum information science with an emphasis on quantum sensing and molecular qubits. We aim to maintain a kind, supportive, and active audience with the objective of building a community across disciplines with similar research goals. We will meet over Zoom on Wednesdays at 1PM CDT from June 5th to August 21st, 2024.

Date	Speaker	Title	Group
June 5	Daniel Laorenza	<i>Designing molecular analogues of optically addressable solid-state qubits</i>	Mason Group, Harvard University
June 12	Che Wu	<i>Group 10 metal dithiolene complexes as molecular qubit precursors</i>	Donahue Lab, Tulane University
June 19	Juneteenth, no seminar	—	—
June 26	Nathan Loutsch	<i>Mechanistic Insights into the C-C Cross-Coupling of Pyrazine and the Formation of a Decanuclear Organometallic Dy(III) Complex</i>	Vlaisavljevich Group, University of Iowa
July 3	Pawel Wojcik	<i>Processing quantum information with laser-cooled molecules</i>	Krylov Group, University of Southern California
July 10	Timothy Krogmeier	<i>Predicting molecular spin dynamics using electronic structure and open systems methods</i>	Head-Marsden Group, University of Minnesota
July 17	Cindy Serena Ngompe Massado	<i>Tuning Chromium(IV) Color Centers for Sensing Environments</i>	Freedman Group, MIT
July 24	Irma Avdic	<i>Entanglement polytopes for quantum sensing</i>	Mazziotti Group, University of Chicago
July 31	Lorenzo Mariano	<i>Ab initio simulation of spin-phonon relaxation time in molecular qubits</i>	Quantum Materials Dynamics (Lunghi) Group, Trinity College Dublin
August 7	Valerio Briganti	<i>Decoherence in molecular qubits by cluster correlation expansion</i>	Quantum Materials Dynamics (Lunghi) Group, Trinity College Dublin
August 14	Titir Das Gupta	<i>Chlorine incorporation to mitigate decoherence</i>	Donahue Lab, Tulane University
August 21	Steven Diaz	<i>Utilizing Entangled Photons in Stimulated Raman Scattering</i>	Frontiera Lab, University of Minnesota