

## ICTS Condensed Matter Seminar

- Title** : Signatures of fractionalized excitations in quantum spin liquids
- Speaker** : Nandini Trivedi (The Ohio State University, USA)
- Date** : Thursday, 25<sup>th</sup> April 2024
- Time** : 11:30 AM (IST)
- Abstract** : Quantum spin liquids (QSLs) are long-range entangled states of matter of billions of interacting qubits or spins that develop in a Mott insulator. Remarkably QSLs harbor fractionalized excitations rather than the conventional spin waves of ordered magnets that carry integer units of angular momentum. In my talk I will identify detectable signatures of these fractionalized excitations in pump-probe spectroscopy. These fractionalized excitations are promising candidates to create logical qubits for quantum computation.
- Venue** : Chern Lecture Hall
- Zoom link: <https://icts-res-in.zoom.us/j/91934239401?pwd=Tk8rWk52Nm92WnB0MVBud2RNTVhSdz09>
- Meeting ID: 919 3423 9401
- Passcode: 252526