

MONDAY

COLLOQUIUM

Quantum Spin Liquids in Condensed Matter

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11 May 2026 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

Ferromagnets and antiferromagnets are relatively well known states which form when magnetic interactions overcome the thermal energy. In such systems, the low-temperature ordered states break some symmetries compared to the high-temperature paramagnetic phase. Quantum spin liquids are a new state of matter where quantum fluctuations and/or frustration prevent magnetic order with no breaking of symmetry (even at $T = 0$) though the spins are expected to remain entangled. Such systems host novel ground states and novel excitations. I will give an introduction to the genesis of the field followed by some of our recent work.