



ICTS MONTHLY COLLOQUIUM

One hundred years of Quantum Physics

Over the past century, quantum mechanics has reshaped our understanding of nature—from the structure of atoms and solids to the quantum fields underlying particle physics. This colloquium offers a guided tour of a few key milestones, starting with Schrödinger's equation (1926) and culminating in today's perspective where entanglement and information play central roles, including in quantum computation.



Frank Verstraete
University of Cambridge, United Kingdom

Frank Verstraete is the Leigh Trapnell Professor of Quantum Physics in the Department of Applied Mathematics and Theoretical Physics at the University of Cambridge. He works on quantum entanglement and quantum many-body physics. Together with Ignacio Cirac (Max Planck Institute of Quantum Optics), he developed the theory of tensor networks, which provides a unifying framework for tackling quantum many-body problems—one of the central challenges in theoretical physics. His work connects ideas across high-energy physics, condensed matter physics, atomic physics, and quantum computation, building bridges between—and increasingly unifying—these fields.

13 January 2026
4:15 PM IST
Ramanujan Lecture Hall



Zoom link: <https://shorturl.at/MfunE>

Meeting ID: 997 2192 6353

Passcode: 204582

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