

**Department of Mathematics**  
**Visva-Bharati**  
**Siksha-Bhavana**



Ref. No. : 23/Math/2026-2027

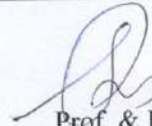
Date : 14/10/2026

**NOTICE**

An invited lecture will be delivered on 15/10/2026 at 03.00 PM at the Department of Mathematics, Seminar Hall 1. All are cordially invited.

The schedule is given below:

| Date & Time                  | Name & Address of the Speaker | Title of the Talk                                                               | Abstract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|-------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| October 15, 2026<br>03.00 PM | Sonjoy Majumder               | <i>Quantum circuit model for continuous time quantum walk on a Random Graph</i> | Quantum-circuit implementations of continuous-time quantum walks (CTQWs) can provide an efficient route to model graph-based algorithms. However, constructing circuits that faithfully reproduce CTQW dynamics across arbitrary graphs remains a major challenge. In this presentation, I will introduce a Laplacian partitioning algorithm (LPA) that enables an efficient and scalable quantum-circuit realization of CTQWs on random graphs. I will demonstrate the advantage of our LPA over a common algorithm for simulating a general graph on a quantum circuit, which is based on the Pauli decomposition of the graph Hamiltonian and incurs a large time overhead for coefficient computation. Our circuit provides a graph-agnostic framework for CTQWs, implemented via a Trotter-Suzuki product formula and confirming error scaling consistent with theoretical Trotter error bounds. |

 14.10.26

Prof. & Head  
Department of Mathematics  
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