



University of Miami, Physics Department Colloquium

Date: Wednesday, Sep 11, 2024
Time: 4:00 pm – 5:00 pm
Location: Wilder Auditorium – Rm 112, Knight Physics Building

Quantum Computing, Information Scrambling, and Thermodynamics: What do they have in common?

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Abstract

In this colloquium, I will present some recent ideas and results concerning quantum computing, information scrambling, and how we can use thermodynamics to understand complexity in classical and quantum computing. These ideas and results have implications that transcend quantum computing and impact fields such as black hole physics and cryptography.