



Seminar/Talk

# Quantum games and a new perspective on quantumness

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Host: Maksym Serbyn

Abstract: The advent of quantum hardware provides a new playground for many body physics. Nonlocal quantum games provide a new approach to diagnose and harness the correlations inherent in phases of matter, on quantum hardware. I will introduce the notion of many body quantum games, Then, I will introduce a class of quantum games that allow the robust identification and harnessing of topological order on quantum hardware. I will then change gears and discuss how this formalism may be used to illuminate a very old question: how to operationally quantify quantumness in the many body context.

**Friday, June 12, 2026 11:00am - 12:00pm**

Sunstone Bldg / Ground floor / Big Seminar Room A



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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