Seminar/Talk

Virtual Physics Talk with Giulia Semeghini

Giulia Semeghini
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Host: Maksym Serbyn

Probing Topological Spin Liquids on a Programmable Quantum SimulatorQuantum phases with topological order, such as quantum spin liquids, have been the focus of explorations for several decades. Such phases can be potentially exploited for the realization of robust quantum computation, as exemplified by the paradigmatic toric code model. In this talk, I will show how a programmable quantum simulator based on Rydberg atom arrays can be used to realize and probe quantum spin liquid states. Our observations open the door to the controlled experimental exploration of topological quantum matter, and could enable the investigation of new methods for topologically protected quantum information processing. Join Zoom Meetinghttps://istaustria.zoom.us/j/94990101885?pwd=RzRXU0hXcWFzQmVqU2xaNW1pYUlhUT09Meeting ID: 949 9010 1885Passcode: 761933One tap mobile+436703090165,,94990101885# Austria

Friday, May 21, 2021 03:00pm - 04:00pm
via Zoom

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.