



Institute colloquium

Measuring the knots & braids of non-Hermitian oscillators

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Host: Onur Hosten

It may seem unlikely that rich mathematical structures remain to be uncovered in classical harmonic oscillators. Nevertheless, systems that combine non-reciprocity and loss have provided a number of surprises in recent years. I will describe how these systems naturally exhibit braids, knots, and other topological structures. I will also present measurements of these structures (using a cavity optomechanical system), and will describe their potential application in various control schemes. This will be a pedagogical introduction to these topics, with lots of pictures and videos!

Monday, December 18, 2023 11:30am - 12:30pm

Raiffeisen Lecture Hall



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.