



Colloquium

Active Topology

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Host: Gasper Tkacik

Topology plays a key role in condensed matter physics, underlying much of our understanding of equilibrium matter in terms of defects in ordered media and topologically protected states. In active systems – collections of entities that consume energy to generate their own motion and forces – topological phenomena can take on new and surprising roles. I will describe some of these behaviors focusing on liquid-crystalline active matter in two dimensions, specifically active nematic liquid crystals, where defects become motile particles, drive spatio-temporally chaotic flows, and can themselves organize in emergent ordered states.

Monday, May 17, 2021 05:00pm - 06:00pm

Online



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

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<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.