

Thursday, November 18, 2021

11:10am–11:45am

Vidya Madhavan

CAS Associate 2018–19, Physics

The Powerful Roles of Symmetry and Topology in Quantum Materials



The natural world is full of symmetry that is immensely appealing to our sense of beauty. The same symmetries also have profound consequences for the physical world. In this talk, Professor Madhavan will explore how symmetries can impose strict constraints on the physical

properties of systems all the way to the quantum level. She will also discuss another equally profound concept, topology, and describe how viewing the world from the perspective of topology has led to new discoveries in the last decade.

12:10–12:45pm

Fatima Husain

CAS Associate 2019–20, Speech & Hearing Science

Leveraging Neuroimaging of Hearing Disorders to Understand Basic Brain Function and Help Patients



Using innovative neuroimaging and computational techniques, Professor Husain and her research group have mapped out the functional and anatomical neural networks underlying these disorders. In the process, they have expanded our knowledge about

basic brain functions and provided evidence regarding different interventions to help patients.



CENTER FOR ADVANCED STUDY

FOOD FOR THOUGHT

A new Center for Advanced Study public events series featuring presentations of research and creative projects by recent CAS Associates and Fellows.

This informal series includes talks that were canceled after campus shut down in Spring 2020. With the possibility of in-person events once again, we are delighted to showcase the work of some of our most productive and creative faculty in a series of intellectually and spiritually invigorating presentations. You are invited to drop in when you can and enjoy a bite to eat while you learn about the exciting projects undertaken by our faculty. A brunch buffet will be provided at all in-person events.

Center for Advanced Study
Levis Faculty Center—Room 210
919 W. Illinois, Urbana



For more information please scan the QR code or consult cas.illinois.edu.