



UC SANTA BARBARA
Kavli Institute for
Theoretical Physics

presents

Café KITP

Physics with a twist: The new world of moiré materials

Tuesday, November 19

6PM - 7PM (*Doors at 5PM*)

1221 State St. #205

Santa Barbara, CA 93101

SOHO
Restaurant & Music Club

Many headlines follow high-energy physicists' search for new particles, but with much less fanfare, materials physicists discovered one! The anyon is a particle that only exists in solids and is fundamentally different than electrons, protons, light, and anything else in the Standard Model. Hints were first seen in 1982, but anyons were only definitively confirmed in 2020. They seemingly required a large magnetic field until they were predicted to appear in "moiré" materials, two atomically thin sheets with a small twist between them. A few years ago, materials physicists were able to make such systems and observed not only anyons, but a multitude of other surprises. Dive into the wonderful and rapidly developing physics of moiré materials with **KITP Postdoctoral Scholar Tessa Cookmeyer**.



Seating is first-come, first-served. Food & drinks will be available for purchase.

For more information, please contact: friends@kitp.ucsb.edu