



UC SANTA BARBARA
Kavli Institute for
Theoretical Physics

presents:

Café KITP

Generating Entanglement Through Measurements:

A Time To Tear Down And A Time To Build



1221 State Street #205
Santa Barbara, CA 93117

WEDNESDAY, SEPTEMBER 21

6:00 - 7:00 PM

Doors open at 5PM

Please note: Seating is first-come, first-served



Entanglement is one of the primary features of quantum systems, which characterizes how one part of a system is independent of the remainder. To reveal entanglement, measurements can be conducted. However, in the quantum world, one cannot measure a system without affecting it. In many situations, measurements simply destroy the entanglement of interest. Over dinner and drinks, **Postdoctoral Scholar Zhu-Xi Luo (KITP and Harvard)** will describe how to turn the game around: we design competing measurements to generate more entanglement, realizing exotic phases of matter that are potentially useful for robust quantum computation.

Contact friends@kitp.ucsb.edu for more information about KITP and upcoming events