

Colloquium Notice

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*Topological physics with two oscillators: beyond
the Berry phase via exceptional points*

Topological phenomena appear in a number of systems, from exotic quantum phases to carefully engineered waveguides. They offer potentially powerful forms of control, and are intriguing in their own right. I will describe a topological feature that is generically present in one of nature's simplest systems: a pair of damped coupled oscillators. I will describe experiments in which we demonstrate this Moebius-strip-like feature and use it to achieve topological control over the excitations in an optomechanical system. I will also describe the nonreciprocal dynamics associated with this feature.

Monday

April 30, 2018

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326