## SPEAKER:

Alexis Drouot, University of Washington

## TITLE:

Dirac operators and topological insulators

## **ABSTRACT:**

This talk will focus on Dirac operators that emerge when studying macroscopic transport between topological insulators. I will analytically construct canonical edge states: coherent states that propagate along interfaces, but do not admit natural counter-propagating companions. I will illustrate the results with various numerical simulations. Joint work with G. Bal, S. Becker, C. Fermanian Kammerer, J. Lu and A. Watson.