Pacific Institute for the Mathematical Sciences

PIMS Distinguished Speakers Series

Alejandro Adem, UBC

Director, Pacific Institute for the Mathematical Sciences

Friday-April 12, 2013

12:00 to 1:00 pm-presentation

1:00 to 1:15 pm-meet & greet

UHall B650

Title: **Topology of Spaces of Commuting Matrices**

In this talk, we will consider topological spaces arising from commuting unitary and orthogonal matrices. Basic properties will be discussed, such as the number and structure of their path components. Connections to representations, bundles and homotopy theoretic invariants will be explored. A number of explicit examples will be provided to illustrate these ideas.