Pacific Institute for the Mathematical Sciences

PIMS Distinguished Speakers Series

JAMES COLLIANDER

Professor, University of British Columbia
Deputy Director, PIMS
Founder/CEO, Inc. Crowdmark

Title: The Nonlinear Schrödinger Equation as a Dynamical System

Abstract: This talk will explore recent advances and open issues in the understanding of the dynamics of solutions of the nonlinear Schrödinger (NLS) equation. NLS is an infinite dimensional Hamiltonian system that arises ubiquitously in mathematical models of wave phenomena.

Bio: James Colliander is currently a professor at the University of British Columbia. He obtained his PhD at the University of Illinois in 1997. He is the only PhD student of Jean Bourgain (Fields medal 1994). His field of research is at the interface of partial differential equations, harmonic analysis and dynamical systems, especially non-linear Schrödinger equation. He is a frequent collaborator of Terry Tao (Fields medal 2006).

He is a recipient of the Sloan Foundation Fellowship (2003), the McLean Award (2007), and the University of Toronto's Outstanding Teaching Award in Arts and Science (2010). He is the founder and CEO of the education technology company Crowdmark. He has been PIMS (Pacific Institute for the Mathematical Sciences) deputy director since July 2015 and will be PIMS director starting July 2016.

Tuesday – April 12, 2016

11:00 to 11:50 am

UHall C620

Light refreshments