2016 Séminaire de Mathématiques Supérieures: Dynamics of Biological Systems

May 30 - June 11, 2016
The University of Alberta

The purpose of this summer school is to focus on the interplay of dynamical and biological systems, developing the rich connections between science and mathematics that have been so successful to date. Our focus will be on understanding the mathematical structure of dynamical systems that come from biological problems, and then relating the mathematical structures back to the biology to provide scientific insight.

SPEAKERS:

RÉKA ALBERT (Pennsylvania State University)
HENRI BERESTYCKI (École des Hautes Études en Sciences Sociales)
CHRIS COSNER (University of Miami)
GERDA de VRIES (University of Alberta)
ZHILAN FENG (Purdue University)
MARTY GOLUBITSKY (Ohio State University)
MICHAEL LI (University of Alberta)
YUAN LOU (Ohio State University)
PHILIP MAINI (University of Oxford)
BENOIT PERTHAME (Université Pierre et Marie Curie)
HONG QIAN (University of Washington)
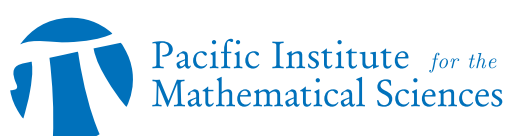JIANHONG WU (York University)

LECTURE TOPICS:

BIOLOGICAL WAVES AND INVASIONS
COMPLEX BIO-NETWORKS
DISEASE DYNAMICS
MULTI SCALE BIOLOGICAL DYNAMICS
NONLINEAR DYNAMICS OF PATTERN FORMATION

FOR REGISTRATION AND OTHER INFORMATION: WWW.PIMS.MATH.CA/SCIENTIFIC-EVENT/160530-SDMSDBS

Application deadline: January 15, 2016.

ORGANIZERS: Mark Lewis, Thomas Hillen and Yingfei Yi (all University of Alberta)