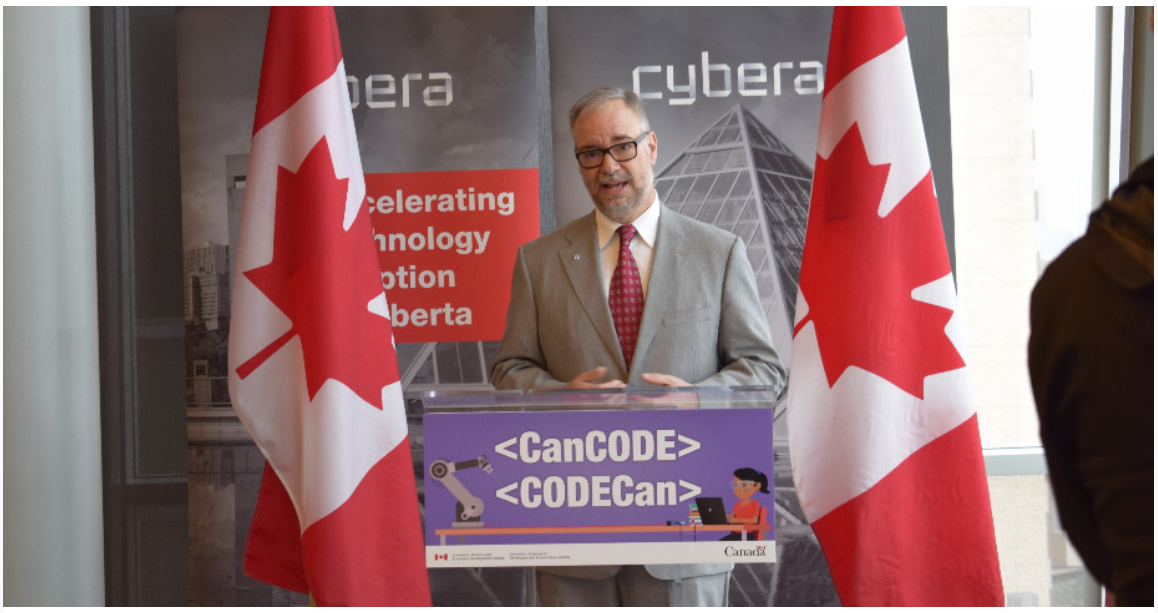
PIMS Connection

MONTHLY NEWSLETTER | February 2018



Hello From PIMS!

The Big News: PIMS & Cybera Selected for CanCODE

January saw the announcement of the Federal CanCODE grant. PIMS is so excited to be working with our partners at Cybera on a new K-12 teaching platform that will help students gain digital literacy and so much more! The new platform will be based on our work in the Jupyter environment.

Heading into February, we have a lot planned in innovation and education. PIMS-bcdata Colloquium Series continues with Special Constable Ryan Prox speaking February 7 at SFU on Combating Crime with Predictive Policing. This is followed by Raymond Ng's talk on February 28 covering Big Data in Personalized Medicine.

See all that we have in store below.

Sincerely,
The PIMS Team

FEATURE EVENTS

PIMS | CRM | Fields Prize Lecture: Henri Darmon
February 2, 3:30pm at UBC

Modular functions, modular cocycles, and the arithmetic of real quadratic fields

Modular functions play an important role in many aspects of number theory. The theory of complex multiplication, one of the grand achievements of the subject in the 19th century, asserts that the values of modular functions at quadratic imaginary arguments generate (essentially all) abelian extensions of imaginary quadratic fields. Darmon will describe his ongoing work in collaboration with Jan Vonk which identifies a class of functions that seem to play the role of modular functions for real quadratic fields.

PIMS | UManitoba Distinguished Lecture: Anna Lubiw

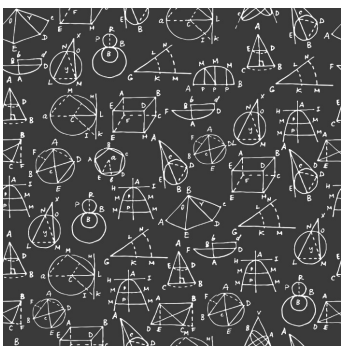
Feb 15 at UM

Reconfiguration of Triangulations of a Planar Point Set

PIMS | bcdata Colloquium Series: Ryan Prox

Feb 7 at SFU Harbour Centre

Combating Crime with Predictive Policing: Stopping a Crime Wave in its Tracks.



Geometric and Nonlinear Partial Differential Equations Conference

Feb 5-9 at Australian National University

A focus on new advances in several related themes, which include, evolution equations, complex differential geometry, and nonlinear equations arising in geometry and physics.

ALL PIMS EVENTS | February 2018

Scientific

Educational

Industrial

NEWS & ANNOUNCEMENTS

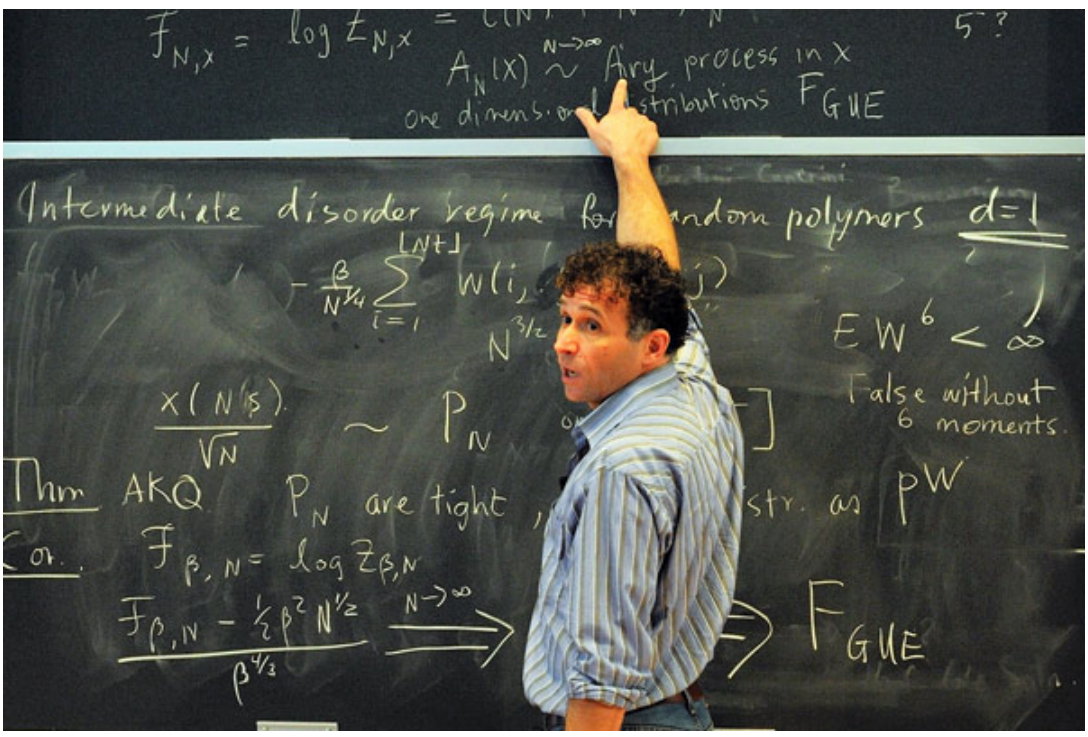
Call for Nominations: 2018 PIMS Education Prize

The Pacific Institute for the Mathematical Sciences is now accepting nominations for the **2018**

PIMS Education Prize. The winner receives $1000.

PIMS Math Circles Return to Monday Evenings in 2018

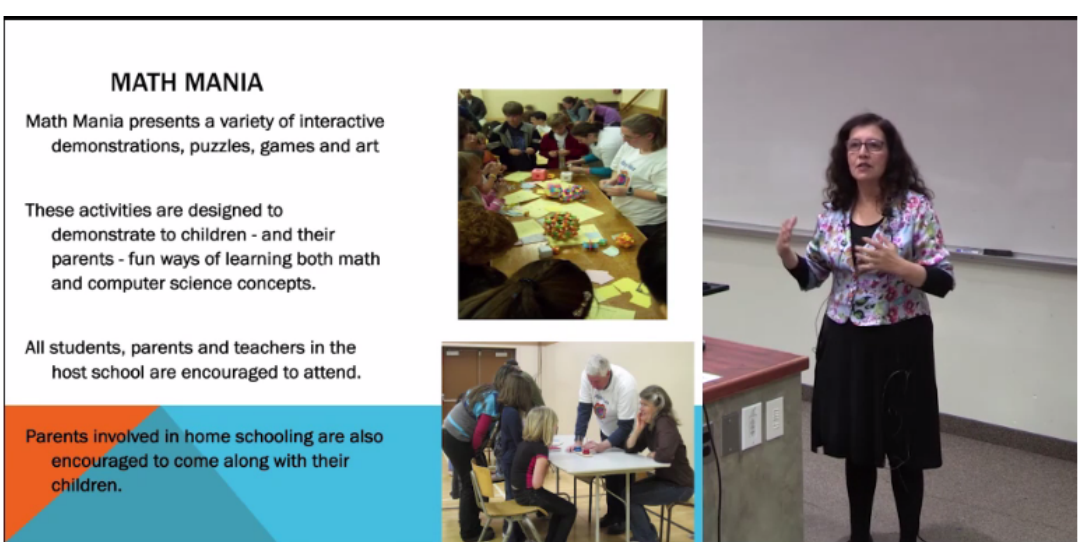
PIMS and **UBC** are excited to be bringing the **Math Circles Workshops for elementary school students** back to Monday evenings in 2018. We invite students from grades 4-7 to challenge and develop their thinking, creativity and problem solving skills in a fun learning environment that brings math to life.



Professor Jeremy Quastel Named Winner of the 2018 PIMS | CRM | Fields Prize

Jeremy Quastel is widely recognized as one of the top probabilists in the world, having made major advances in the fields of hydrodynamic theory, stochastic partial differential equations, and integrable probability.

MEDIA



Dr. Melania Alvarez | Math Outreach: Many Needs, Many Ways
Thu, Oct 26, 2017 - PIMS, University of Manitoba
(Lectures from PIMS events available at mathtube.org)

PUBLICATIONS

PIMS Community Recent Publications:

1. Bauch J., "Lattices over polynomial rings and applications to function fields," *Mathematics of Computation*, submitted 2017.
2. Xu B., "L-packets of quasisplit GSp(2n) and GO(2n)," Mathematische Annalen, 2017 (online).
3. Tanabe N., Hamieh A., "Determining Hilbert modular forms by central values of Rankin-Selberg convolutions: The weight aspect" *The Ramanujan Journal*, published 2017
4. Dale Rolfsen, "Ordered groups as a tensor category" to appear, *Pacific Journal of Mathematics*, 2018

ABOUT PIMS

The Pacific Institute for the Mathematical Sciences (PIMS) was created in 1996 to promote **discovery**, **understanding** and **awareness** in the mathematical sciences. PIMS has expanded from the mathematics community of **Alberta** and **British Columbia** to include **Washington State**, **Saskatchewan** and **Manitoba**. We are proponents of mathematical **collaboration with industry**, **innovation in mathematics education** from K-12 to graduate level initiatives, **public outreach** and **partnerships** with similar organizations around the globe. We fund Collaborative Research Groups, Post-Doctoral Fellowships, individual events, and competitive prizes in mathematics.

FOLLOW US!

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