PIMS Connection

MONTHLY NEWSLETTER | December 2017

HAPPY YEAR END FROM PIMS

DECEMBER ANNOUNCEMENTS:

1. **PIMS Central Office at UBC will be closed for the holidays** as of **December 18** and will resume operations on **January 2, 2018**. Though you'll hear from us on social media, might as well wish you all a Happy Holidays here and now!
2. The PIMS Postdoctoral Fellowship Competition **closes** at **midnight, on Friday, December 1**! Make sure your applications are in.

November was a big month for our Innovation platform. Our PIMS-bcdata Colloquium Series kicking off with Eldad Haber on November 15 at Mobify downtown and the event was well-received - there will be more to come in 2018. The Alberta Epigenetics Workshop was a huge success, bringing together experts from UAlberta, UCalgary, ULethbridge, and AHS to discuss research and partnerships in Computational Biology, Bioinformatics and Artificial Intelligence.
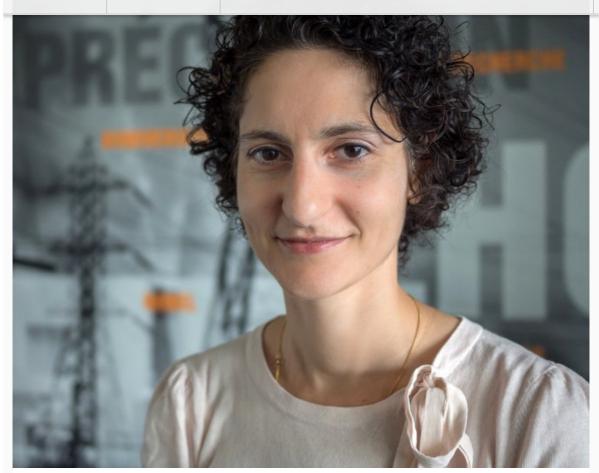
We're winding down 2017 but there is still a lot in store for the rest of the year and into 2018. Check out all the ways to connect with us and stay up to date on PIMS at the bottom of this newsletter.

All the best for December and for a Happy New Year.

Sincerely,
The PIMS Team

FEATURE EVENTS

[PIMS | UBC Math Distinguished Colloquium: Sylvia Serfaty](#)
December 1, 3:00pm at UBC

Microscopic description of Coulomb-type systems
Sylvia Serfaty is a decorated mathematician who won the 2004 EMS Prize for her contributions to the Ginzburg–Landau theory, a Henri Poincaré Prize in 2012, and the Mergier–Bourdeix Prize of the French Academy of Sciences in 2013. Her research focus is quantum vortexes in the Ginzburg–Landau theory. In 2007 she published a book on this subject with Étienne Sandier, *Vortices in the Magnetic Ginzburg-Landau Model*.

[HKUST IAS Focused Program](#)
December 11-15 at HKUST
Frontiers of Theory and Applications of Nonlinear Partial Differential Equations

[PIMS-UBC Mathematics Lecture Series: Marco Cuturi](#)
December 1, 5:00pm at UBC
Generative Models and Optimal Transport Part II

[PIMS | AMI Math Biology Seminar: Dmitry Zenkov](#)
December 18 at UAlberta
Midpoint Rule as a Structure-Preserving Integrator

ALL PIMS EVENTS | DECEMBER 2017

Scientific

Educational

Industrial

PIMS Interim Deputy Director Brian Marcus Named 2018 Fellow of the American Math Society

Professor Brian Marcus was recognized for his contributions to **dynamical systems, symbolic dynamics, applications to data storage problems**, and of course, **for his service to the field of Mathematical Science**.

Why Your Company Needs Mathematicians: the PIMS Innovation Platform

In the summer of 2014, PIMS, along with CRM and the Fields Institute, was awarded funds to create the Institutes Innovation Platform (IIP). The goal of the initiative was simple: to increase the involvement of mathematical science in industry and technological innovation across Canada. Simple, but not easy.

PIMS Celebrates Rufus Bowen

The *Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen* conference was **attended by almost 200 mathematicians** young and old from all over the world, articulating and celebrating Bowen's extraordinary impact.

MEDIA

U of C MS337

Triangular Bases of Integral Closures

Jens Bauch
joint work with Ha Tran

Simon Fraser University

September 28, 2017

Jens Bauch: Triangular bases of integral closures
Thu, Sept 28, 2017 - PIMS CRG in Explicit Methods for Abelian Varieties
(Lectures from PIMS events available at mathtube.org)

For more lectures and PIMS resources, please visit 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.

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