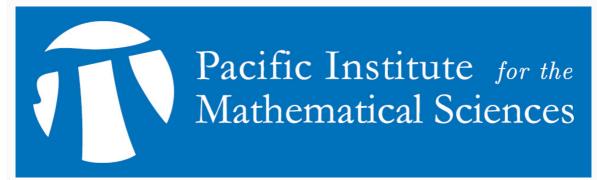
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PIMS MONTHLY CONNECTION | January 2019



HAPPY NEW YEAR FROM PIMS

We hope everyone is well rested after the festive period and ready for a busy start to 2019. We're looking forward to continuing where we left off in December - with a host of quality events in the field of the mathematical sciences.

IMPORTANT NOTICES:

- 1. PIMS UManitoba Distinguished Lecture: Nancy Reid on January 17 at 4 pm, University of Manitoba. <u>Click here for details</u>.
- 2. Discrete Math Seminar: Steph van Willigenburg on January 8 at 4 pm, UBC <u>Click here</u> for details.
- 3. The 2019 Testing Gravity Workshop on January 23-26, at SFU Harbour Centre, Vancouver. Click here for details.

December saw the 2018 Canadian Math Society Winter Meeting being held in Vancouver, as well as distinguished lectures and seminars from high-profile speakers, including Alex Mogilner at UBC, Paolo Mancosu at UCalgary, and Asia Ivic Weiss at SFU.

The application deadline for the **PIMS Deputy Director position** is fast approaching but there's still time to apply. Click <u>here</u> to find out more.

Sincerely, The PIMS Team

FEATURE EVENTS



PIMS UManitoba Distinguished Lecture: Nancy Reid

Thursday, January 17, the University of Manitoba @ 4 pm

Data science is a relatively newly defined area of enquiry deriving from big data. The interplay between them, and their interactions with science, are a topic of ongoing discussion among statisticians.



<u>Discrete Math Seminar: Steph Van Willigenburg</u>

January 8 at the University of British Columbia

A seminar on the combinatorial tools needed to state the shuffle conjecture.



2019 Workshop on Testing Gravity

January 23-26 at the Simon Fraser University, Harbour Centre, Downtown Vancouver

The workshop will provide an opportunity for theorists, experimentalists and observers to discuss new ways of testing General Relativiity



PIMS Workshop on Calculus of Variations and Partial Differential Equations Around the Work of Alessio Figalli

February 8-9 at the University of British Columbia

Recent Fields medalist, Alessio Figalli and a few leading researchers in the areas of calculus of variations and partial differential equations, will discuss the state of the art and future directions.

Click below for all events | January 2019

Scientific

Educational

Industrial

NEWS & ANNOUNCEMENTS



Nassif Ghoussoub Named Winner of the 2019 CRM - Fields - PIMS Prize

The 2019 CRM-PIMS Fields Prize is awarded to **Nassif Ghoussoub** of UBC. The prize was awarded by a high-level international committee chosen by the three institutes.



PIMS Students Using Drones to Map Coastal Pollution

A unique crowdfunding campaign that's quadrupling every dollar raised to build a new tool for identifying pollution hot spots in coastal ecosystems.



Math Circles: 2019 Dates

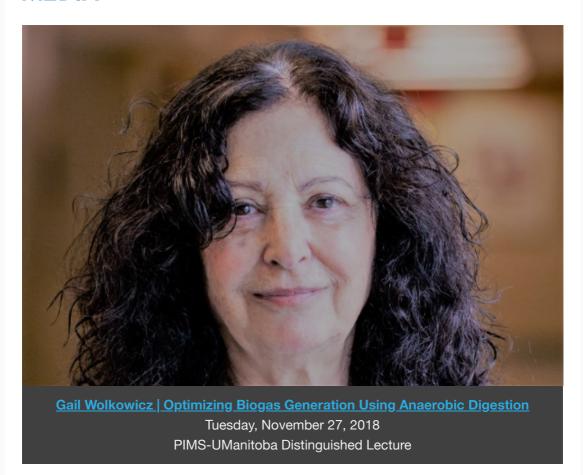
PIMS and UBC are excited to be bringing back the Math Circles Workshops for elementary school students to Monday evenings this Winter/ Spring 2019.



Anead of the contest, Flivis will be again running two preparation sessions for interested

ELMACON competitors. These preparation sessions last for two hours and are free.

MEDIA



For more lectures and PIMS resources, please visit mathtube.org

PIMS COMMUNITY RECENT PUBLICATIONS

- 1. Adcock B., Brugiapagila S., Webster G., "Compressed sensing approaches for polynomial <u>approximation of high-dimensional functions</u>" Compressed Sensing and its Applications. Applied and Numerical Harmonic Analysis, 2018
- 2. Brugiapaglia, S., Adcock B., and Archibal, Richard K. d. "Recovery guarantees for compressed sensing with unknown errors" Proceedings of the 12th International Conference, Sampling Theory and Applications(SampTA), 2017.
- 3. Songhafouo Tsopméné, P.A., Stanley D., "Very good homogeneous functors in manifold calculus" Preprint. Submitted to arXiv:1705.0120, 2017
- 4. Songhafouo Tsopméné, P.A., Stanley D., "Polynomial functors in manifold calculus" Preprint. Submitted to arXiv:1708.02642, 2017

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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