



Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | **March 2020**



THE UNIVERSITY OF BRITISH COLUMBIA



Hello from PIMS

March is here and we look forward to the beginning of Spring across the Provinces. **The PIMS Post Doctorate Panel met in January and we are glad to to announce the awardees on our website [here](#).** Congratulations to our 2020/2021 cohort. Meanwhile, preparations for Summer Programs at PIMS member universities are in full swing. Please check out list of programs to review the dates and events.

IMPORTANT NOTICES:

1. **March 1:** Application deadline for the PIMS - Germany Summer School on Eigenvarieties [Learn more](#).
2. **March 1 - April 1:** Early Bird Registrations open for the Foundations of Computation Math Conference. [Learn more](#).
3. **March 11:** PIMS - UManitoba Distinguished Lecture: Peter Ashwin. [Learn more](#).
4. **March 15:** Nominations for the PIMS Education Prize close. [Learn more](#).
5. **March 15:** Submission deadline for the PIMS Network-wide Graduate Courses. [Learn more](#).

Take a look at the full list of all our great events on the PIMS activity [calendar](#).

Sincerely,
The PIMS Team

FEATURE EVENTS



[PIMS - UBC Minicourse with Prof. Inwon Kim, UCLA.](#)

March 3- 10: Gradient Flows and Minimizing Movements

We will discuss Gradient flow structures in parabolic type PDEs and interface motions. Such structure introduces physical interpretations to time-dependent PDEs in terms of energy dissipation, and allows a weak notion of global-time solutions to nonlinear PDE problems. In broader terms, we will discuss minimizing movements, which approximates dissipative PDE



[Canadian Western Algebraic Geometry Symposium](#)

March 7- 8, 2020: University of Saskatchewan

This weekend conference will bring together algebraic geometers of Western Canada in order to build and strengthen collaborations, disseminate research, and contribute to the training of students and postdoctoral fellows. Talks will be given by 8 respected algebraic geometers. Over half of the speakers will be from the region in order to paint a representative picture of the research being done in Western Canada. The remaining speakers will be renowned external lecturers, serving to keep the Western Canadian algebraic geometry community apprised of recent developments. There will also be a poster session for students and postdoctoral fellows to present their work.



[PIMS - UNBC Distinguished Colloquium](#)

March 7- 8, 2020: University of Northern British Columbia

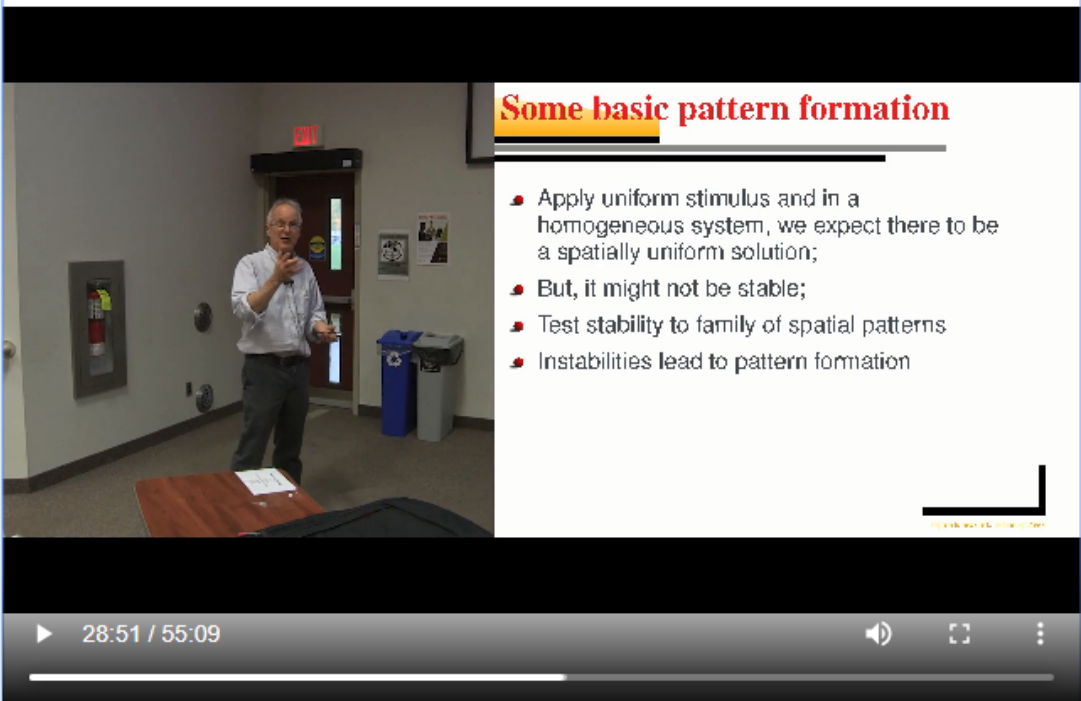
Prof. Malabika Pramanik on "Needles, Bushes, Hairbrushes and Polynomials". Pretend that your car is a unit line segment. How do you perform a three-point turn using an infinitesimally small area on the road? It turns out that this seemingly impossible driving stunt is related to the fundamental theorem of calculus, as well as all the objects in the title of this talk! We will explore these connections and see how they have been useful in many problems in mathematics.

[Click below for all events | March 2020](#)

Scientific

Educational

Industrial



[Call for proposals for PIMS Network-wide Graduate Courses](#)

The Pacific Institute for the Mathematical Sciences (PIMS) is looking for participants in a pilot program to promote the development and offering of graduate courses available to students across the PIMS network. We invite proposals for graduate courses in the mathematical sciences to be offered during the 2020-2021 academic year to be selected for designation as PIMS Network-wide graduate courses. Courses will be advertised and promoted throughout the member universities and departments. Proposals should focus on the plans for course dissemination (e.g. livestreaming, recording, or both etc). The deadline is March 15, 2020.



[PIMS-Globalink Student Mobility Program - Mitacs partner countries to and from CANADA](#)

PIMS is pleased to renew our student mobility program with our partners at Mitacs by leveraging the Mitacs Globalink, to support visits by students from [Mitacs partner countries](#) and PIMS member universities. The Globalink award provides \$6000 (CAD) for senior undergraduate and graduate students from partner countries to conduct 12-24 week research projects at PIMS member universities and vice versa. This program is offered under the umbrella of PIMS-Mitacs, CNRS Unité Mixte Internationale #3069. Applications are accepted any time, awarded competitively, and subject to available funding. Please visit the site [here](#) for more information.

MEDIA

Real-time modelling of novel coronavirus

Daniel Coombs
 Department of Mathematics & Institute of Applied Mathematics
 University of British Columbia

UBC, Jan 31, 2020

[Dan Coombs, UBC Math Biology Professor, shares his slides on "Real-time modelling of novel coronavirus".](#)

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

PIMS COMMUNITY RECENT PUBLICATIONS

1. I. Y. Chun, D. Hong, B. Adcock, J. A. Fessler (2019). [Convolutional analysis operator learning: dependence on training data](#). IEEE Signal Process. Lett. 26(8):1137-1141, 2019.
2. J. Chen, John M.-S. Ma, (2019) [On the compactness of Hamiltonian stationary Lagrangian surfaces in Kähler surfaces](#), arXiv:1910.02549
3. D. Benson , Z. Reichstein, (2019) [Fields of denition for representations of associative algebras](#), Proceedings of the Edinburgh Mathematical Society, 62, 1 , 291{304

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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