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Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | **January 2025**

Hello from PIMS

Happy New Year - welcome to the January edition of the PIMS Newsletter! Below, we have curated a list of events and meetings at our member universities this month.

Opportunities Across the Network:

- **Deadline:** [PIMS Education Prize \(Deadline: March 14\)](#)

Feature Events:

- **January 8th & 9th:** [CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics](#)
- **January 10th:** [CRM-PIMS-AARMS Invited Address: Wilfred Gangbo](#)
- **January 10th & 11th:** [CRM-PIMS-AARMS Special Session on Optimal Transport: Theory & Applications](#)
- **January 10th:** [USaskatchewan Mathematics & Statistics Colloquium: Lauren DeDieu](#)
- **January 15th:** [PIMS Emergent Research Seminar: Samir Mondal](#)
- **January 23rd:** [PIMS Network Wide Colloquium: Amie Wilkinson](#)
- **January 29th:** [PIMS Emergent Research Seminar: Emanuela Marangone](#)

PIMS NETWORK OPPORTUNITIES

PIMS Education Prize

Nominations are now open for the PIMS Education Prize, which is presented annually to a member of the PIMS community in recognition of their outstanding contributions to education in the mathematical sciences. This prize is intended to recognize individuals or groups from PIMS universities, or other educational institutions in Alberta, British Columbia, Manitoba, Saskatchewan and Washington

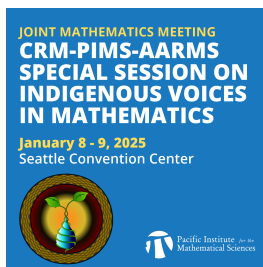


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mathematical sciences, as well as fostering communication among various groups and organizations concerned with mathematical training at all levels. **Submit your nominations before Friday, March 14, 2025.**

[Submit Your Nomination](#)

FEATURE EVENTS



[Joint Mathematics Meeting 2025: CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics](#)

January 8 - 9, 2025: Seattle Convention Center, Room 615

Jan 8: 8 AM - 5 PM PT | Jan 9: 8 AM - 12 PM PT

As part of the 2025 Joint Mathematics Meeting, the CRM-PIMS-AARMS Special Session on Indigenous Voices in Mathematics will span two days, featuring a diverse lineup of speakers. This session will highlight the research of Indigenous mathematicians, celebrating the breadth and depth of their contributions across various mathematical disciplines.

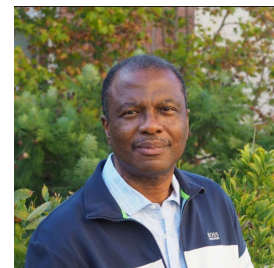
[See Event Details](#)

[Joint Mathematics Meeting 2025: CRM-PIMS-AARMS Invited Address - Wilfrid Gangbo](#)

January 10, 2025: Seattle Convention Center, Ballroom 6C

9:40 AM - 10:45 AM PT

Viscosity Solutions In Non-Commutative Variables



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Gangbo. Professor Gangbo's research interests lie in calculus of variations, nonlinear analysis, partial differential equations, kinetic theory, functional analysis and fluid mechanics.

[See Event Details](#)

[Joint Mathematics Meeting 2025: CRM-PIMS-AARMS Special Session on Optimal Transport - Theory & Applications](#)

January 10 - 11, 2025: Seattle Convention Center, Room 615

Jan 10: 1 PM - 5 PM PT | Jan 11: 8 AM - 11:30 AM PT

The CRM-PIMS-AARMS Special Session on Optimal Transport: Theory and Applications, organized by the PIMS Kantorovich Initiative, will feature presentations from leading experts and emerging researchers, highlighting diverse aspects of optimal transport theory and its applications.

[See Event Details](#)

[USaskatchewan Mathematics & Statistics Colloquium: Lauren DeDieu](#)

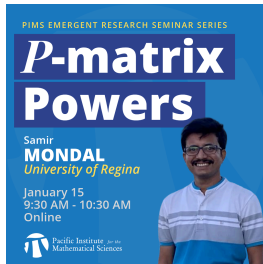
January 10, 2025: University of Saskatchewan, ARTS 206

1:30 PM PT | 2:30 PM MT | 3:30 PM CT

Promoting Active Engagement in Calculus and Linear Algebra

Dr. Lauren DeDieu is an Associate Professor (teaching) at the University of Calgary. In 2024 she was awarded the Margaret Sinclair Memorial Award, which honours exceptional individuals who



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[PIMS Postdoctoral Fellow Seminar: Samir Mondal](#)

January 15, 2025: Online

9:30 AM PT | 10:30 AM MT | 11:30 AM CT

[P-matrix Powers](#)

Samir Mondal a PIMS postdoctoral fellow at the University of Regina under the supervision of Prof. Shaun Fallat. His current research interests are in matrix positivity which includes studies on eigenstructure, factorizations, transformations, and roots of matrix positivity classes.

[See Event Details](#)

[PIMS Network Wide Colloquium: Amie Wilkinson](#)

January 23, 2025: Online

1:30 PM PT | 2:30 PM MT | 3:30 PM CT

[Dynamical symmetry is atypical](#)

Amie Wilkinson is a Professor of Mathematics at the University of Chicago. Her research interests lie in the area of smooth dynamical systems and is concerned with the interplay between dynamics and other structures in pure mathematics - geometric, statistical, topological and algebraic. In 2021, Dr. Wilkinson was elected to the American Academy of Arts and Sciences.



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[PIMS Emergent Research Seminar: Emanuela Marangone](#)

January 29, 2025: Online

9:30 AM PT | 10:30 AM MT | 11:30 AM CT

[Lefschetz Properties for Artinian Complete Intersections](#)

Emanuela Marangone is PIMS postdoctoral fellow at the University of Manitoba under the supervision of Prof. Susan Cooper. Her current research interests are in Commutative Algebra and Algebraic Geometry. In particular, she studies topics related to the Weak Lefschetz Property, focusing on the non-Lefschetz Locus.

[See Event Details](#)

View our calendars for more meetings and events

[Scientific Programs](#)

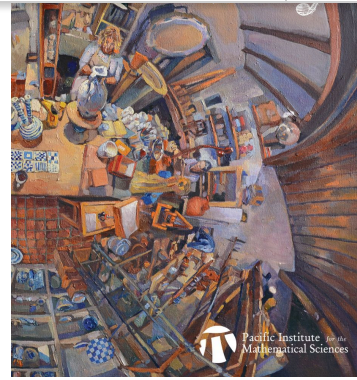
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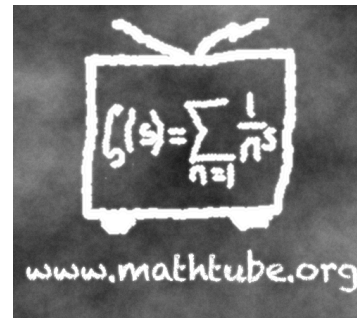
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Geared toward high school students and teachers, ***Pi in the Sky*** offers a fresh cultural perspective on mathematics, exploring curriculum topics from new and engaging angles. ***Pi in the Sky*** magazine is published by the Pacific Institute for the Mathematical Sciences and is available online. [Visit our website to read the issue!](#)



Missed a Lecture? Go to Mathtube.Org

Since 1996, PIMS has collected and maintained an archive of videos and lecture notes covering many areas of the mathematical sciences. If you missed any of the PIMS PDF Colloquium Lectures, visit www.mathtube.org to see these and other archives.



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. Our mandate is to promote research in and applications of the mathematical sciences, to facilitate the training of highly qualified personnel, to create an equitable, diverse and inclusive community, to enrich public awareness of and education in the mathematical sciences, and to create mathematical partnerships with similar organizations in other countries in the Pacific Rim. PIMS funds Collaborative Research Groups, Post-Doctoral Fellowships, and individual events on a competitive basis.

We Want to Hear from You

Share your feedback on this month's newsletter and tell us what stories and news you would like to hear more of.

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Your Support Makes a Difference

PIMS education and outreach programs touch countless educators, students, and Indigenous communities. Some of our activities include summer schools, mathematics contests and meetings for educators. [Learn more](#)

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Mailing address:

Pacific Institute for the Mathematical Sciences
The University of British Columbia
4176-2207 Main Mall
Vancouver, BC V6T 1Z4
Canada

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www.native-land.ca