Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | **February 2022**

UNIVERSITY OF SASKATCHEWAN

Hello from PIMS

As we continue to adjust to the new year, we are excited to announce new **changes in PIMS leadership** that will take effect on July 1, 2022. These changes reflect the growth and the increased recognition of PIMS beyond Canada and the Pacific Northwest. Find out more in the announcement section below.

Planning for the **Pacific Rim Mathematical Science Association** Congress is in full swing. The Scientific Committee welcomes applications from junior researchers wishing to showcase their current work. More details can be found on the congress webpage here.

Our member universities continue to host meetings and events online, in person, or hybrid formats. Be sure to sign up and attend any of the events listed on our web pages.

UPCOMING DEADLINES:
February 4 - Application deadline: Séminaire de Mathématiques Supérieures 2022: Floer Homotopy Theory
February 15 - Accommodation Applications: Summer School on Optimal Transport
March 31- PRIMA Junior Researchers showcase: Poster and Short talk
April 15 - Call for Network-wide Graduate Courses 2022-2023

See below for more details on this month's news, featured events, and publications.

Sincerely,
The PIMS Team

NEWS & ANNOUNCEMENTS

Özgür Yilmaz, UBC
Director

Kristine Bauer, UCalgary
Co-Director, Industry

Jayadev Athreya, UWashington
Co-Director, International

The PIMS Board Announces New Leadership Changes in 2022

The Pacific Institute for the Mathematical Sciences (PIMS) is pleased to announce new changes in leadership that will take effect on July 1, 2022. The PIMS Board approved the appointment of Professor Özgür Yilmaz (UBC) as the new institute Director. Professor Kristine Bauer (UCalgary) will join the PIMS leadership team as the Co-Director, Industry. Professor Jayadev Athreya (UWashington), the current Interim Director, will continue to be part of the directorate, serving in a new capacity as Co-Director, International.

[Read the full announcement here]

Dr. Natalia Nolde to Receive the 2021 UBC/PIMS Mathematical Sciences Young Faculty Award

PIMS is pleased to announce that Dr. Natalia Nolde, is the recipient of the 2021 UBC - PIMS Mathematical Sciences Young Faculty Award. Dr. Nolde is currently an Associate Professor in the Department of Statistics at the University of British Columbia. Her research interests include probabilistic and statistical aspects of multivariate extreme value modelling including application to risk management in finance, insurance, hydrology and geoscience.

FEATURE EVENTS

February 2, 2022   Online

JOIN IN CELEBRATING FRED BRAUER'S 90TH BIRTHDAY

Mini-symposium in Honour of Professor Fred Brauer

Coming together to honour Fred's scholarship, mentorship, friendship and legacy

Mini-symposium in Honour of Professor Fred Brauer
Feb 2. Online.

Prof. Brauer had two mathematical careers, the first at U Wisconsin, Madison (1960-96), where he also served as Department Chair, and the second as an emeritus honourary professor at the University of British Columbia. Fred was an active member of our UBC Mathematical Biology group, and we are greatly saddened to have lost him. At this event, celebrating Fred Brauer's 90th Birthday, we will come together to honour Fred's scholarship, mentorship, friendship and legacy.

PIMS Network-Wide Colloquium Series

February 24, 1:30pm Pacific

Ingrid Daubechies
Duke University

[PIMS Network Wide Colloquium: Ingrid Daubechies](#)

Feb 24. Online.

Mathematics can help Art Historians and Art Conservators in studying and understanding art works, their manufacture process and their state of conservation. The presentation will review several instances of such collaborations, explaining the role of mathematics in each instance, and illustrating the approach with extensive documentation of the art works.

PIMS PDF SEMINAR SERIES

Wenzhao Chen, UBC

Feb 9 - Knot Floer Homology of Satellite Knots

Wenzhao Chen obtained his Ph.D. at Michigan State University in 2019, where he studied Heegaard Floer homology and low dimensional topology. He is a PIMS Postdoctoral Fellow at the University of British Columbia. He is working with Dr. Liam Watson in low-dimensional topology.

See Details

Evan Miller, UBC

Feb 16 - The Geometric Structure of Possible Singularities for the Navier-Stokes and Euler Equations

Evan Miller received his PhD in mathematics from the University of Toronto under the supervision of Prof. Robert McCann in 2019. He is a PIMS postdoctoral fellow at the University of British Columbia working with Prof. Tai-Peng Tsai and Prof. Stephen Gustafson.

See Details

Kübra Benli, ULethbridge

Feb 23 - Small Prime kth Power Residues Modulo p}

Kübra Benli received her Ph.D. at the University of Georgia under the supervision of Prof. Paul Pollack in 2020. She will begin her PIMS postdoctoral fellow at the University of Lethbridge later in 2022.

See Details

Click below for upcoming events

Scientific

MEDIA

PIMS Network Wide Colloquium: Watch it again
PIMS hosts a monthly, high-level network-wide colloquium series from distinguished speakers across the full PIMS network. Watch **Benoît Perthame's** talk, Monge-Kantorovich distance and PDEs here.

2022 Event Highlights

PIMS is happy to share our Event Highlights for the 2022 Calendar year. Our workshops, seminars and summer schools will be hosted online, in person, or through a hybrid combination—depending on current institutional guidelines. Please check our website for more details on each event.

PIMS COMMUNITY RECENT PUBLICATIONS

1. **Clifton Cunningham, Andrew Fiori, Qing Zhang,** Arthur packets for G2 and perverse sheaves on cubics, Advances in Mathematics. Volume 395, 24 February 2022, 108074
2. **J. Morris and J. Smoli,** Two families of graphs that are Cayley on nonisomorphic groups, J. Algebra Combinatorics Discrete Structures and Applications 8 (2021), no. 1, 53–57.

SAVE THE DATE

Pacific Rim Mathematical Association (PRIMA) Congress 2022

Dec 4–9, 2022. Vancouver.
PRIMA is an association of mathematical sciences institutes, departments and societies from around the Pacific Rim, established in 2005 with the aim of promoting and facilitating the development of the mathematical sciences throughout the Pacific Rim region. **Applications from Junior researchers are now open**. Find out more here.

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.

Feedback

Support Maths Conference

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

Donate to PIMS

Follow PIMS and be a part of our community

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We acknowledge with gratitude that PIMS central office is located on the unceded, traditional, and occupied territory of the Coast Salish peoples. This includes the territories of the xwməθkwəy̓əm (Musqueam), Skwxwú7mesh (Squamish), and Səl̓ílwəta?/Selilwitulh (Tsleil-Waututh) Nations.
www.native-land.ca