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PIMS MONTHLY CONNECTION | **December 2024**

Hello from PIMS

The end of the year is upon us! 2024 has been a successful year of collaboration and partnership across the PIMS network. We look forward to the upcoming holiday break and a new beginning in 2025. Below, we have curated a list of events and meetings taking place at our member universities this month.

PIMS News:

- **Dr. Leah Edelstein-Keshet Awarded the 2025 CRM-Fields-PIMS Prize**

Opportunities Across the Network:

- **Apply for Funding: SMS 2025: An Introduction to Recent Trends in Commutative Algebra**

Feature Events:

- **December 6th**: **USaskatchewan Mathematics & Statistics Colloquium: John Baez**
- **December 12th**: **PIMS Lunchbox Lecture: Vakhtang Putkaradze**

PIMS NEWS

Dr. Leah Edelstein-Keshet Awarded the 2025 CRM-Fields-PIMS Prize

The Pacific Institute for the Mathematical Sciences (PIMS), along with the Centre de Recherches Mathématiques (CRM) and the Fields Institute, is proud to announce that Dr. Leah Edelstein-Keshet, Professor Emerita at the University of

As a pioneer in mathematical biology, Dr. Edelstein-Keshet has made contributions to understanding biological phenomena such as cell polarization, cell motility, and collective biological motion. Her highly influential research integrates mathematical modeling, computational analysis, and experimental collaboration. Beyond her research, Dr. Edelstein-Keshet has had a profound impact on the mathematical and scientific community, authoring over 100 papers, supervising numerous students, and publishing in mathematical and interdisciplinary journals including Nature and Proceedings of the National Academy of Sciences (PNAS). In 1995 she became the first female president of the Society for Mathematical Biology, serving as an inspiring role model for future generations.

Read the Full News Article

PIMS NETWORK OPPORTUNITIES

Apply for Funding: SMS 2025: An Introduction to Recent Trends in Commutative Algebra

The 2025 Séminaire de Mathématiques Supérieures: An Introduction to Recent Trends in Commutative Algebra will take place from June 2-13, 2025 at the Fields Institute. This summer school will allow graduate students to learn about a number of recent trends and advances in the field of commutative algebra. The school will focus on four topics within commutative algebra: Combinatorial Methods, Homological Methods, Computational Methods, and Characteristic p Methods. There will also be a series of introductory lectures and intermediate/advanced lectures from leaders in the four areas. **To apply for partial funding for the summer school,** please fill out the form **by February 28, 2025**.

View Summer School Details

FEATURE EVENTS

USaskatchewan Mathematics & Statistics Colloquium: John Baez
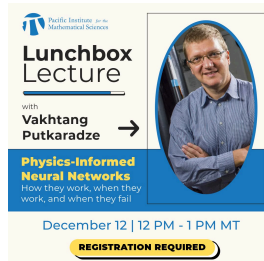
December 6, 2024: Online
3:30 PM CST

How Category Theory Can Help Modelers

John Carlos Baez is an American mathematical physicist and a professor of mathematics at the University of California, Riverside. He has worked on spin foams in loop quantum gravity, applications of higher categories to physics, and applied category theory. He writes for a mathematical blog, Azimuth, and a column in the Notices of the American Mathematical Society.

See Event Details

PIMS Lunchbox Lecture: Vakhtang Putkaradze

December 12, 2024: University of Calgary - Downtown
12 PM MT

Physics-Informed Neural Networks - How they work, when they work, and when they fail

Prof. Vakhtang Putkaradze received his PhD at the University of Copenhagen, Denmark, and held faculty positions in New Mexico, Colorado State University, and, most recently, at the University of Alberta, where he was a Centennial Professor between 2012-2019. From 2019 to 2022, he led the science and tech section in the Transformation Team at ATCO Ltd, first as a Senior Director and then as a Vice-President. His main topic of interest is using mathematical methods in mechanics and various applications, including satellites, fluids, molecules and other fields. He has

including Humboldt Fellowship, Senior USPC fellowship, CFI-IMS
Fields industrial math prize and G. I. Zaslavsky prize.

View Event Details

View our calendars for more meetings and events

Scientific Programs

Education Programs

Industrial Programs
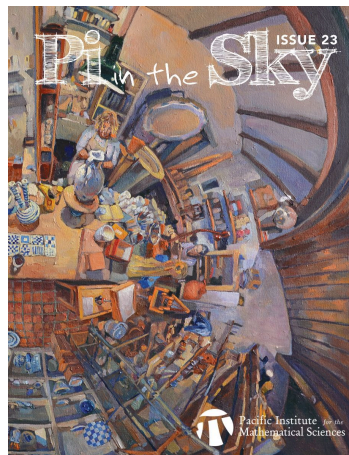

MEDIA

PIMS is now on Bluesky!

You can now follow PIMS on Bluesky to keep up on
upcoming events, meetings and deadlines taking place at
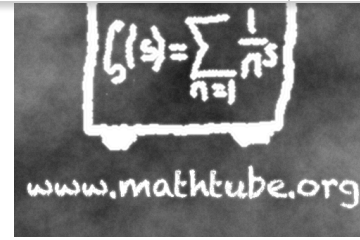our member universities. Follow us to stay connected.

Pi in the Sky Issue 23 is Out Now!

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!

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.

Feedback

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

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