



Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | **August 2021**



Hello from PIMS

With summer in full swing, please join us in extending a very warm welcome to **Professor Jayadev Athreya, as the new Interim Director of PIMS**. Professor Athreya joins us from the University of Washington. Welcome!

The **University of Northern British Columbia** is hosting a **free event for high school students** in grades 10–12. Students all over BC, from Prince George and beyond, can take part. This online event runs from Aug 3–7.

We are excited to offer the second **Math[^]Industry Workshop**. This virtual 4-week event is for **graduate students and postdoctoral fellows** in the mathematical and statistical sciences looking to gain the industry skills needed for success in their careers. This workshop takes place from Aug 3–27.

Nominations are open for the annual CRM- Fields- PIMS Prize. This is the premier prize for research awarded jointly by the three Canadian mathematics institutes. As part of our commitment to equity, diversity, and inclusion, we encourage nominations of women and of members of underrepresented groups.

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

Sincerely,
The PIMS Team

NEWS & ANNOUNCEMENTS



[Jayadev Athreya Announced as New Interim Director at PIMS](#)

PIMS is pleased to appoint Professor Jayadev Athreya, as the interim Director. Jayadev Athreya is a Professor of Mathematics and the Comparative History of Ideas at the University of Washington, and the founder of the Washington Experimental Mathematics Lab. The PIMS Community thanks Professor James Colliander, the Institute's Director since 2016. Under Professor Colliander's leadership, PIMS has built crucial partnerships in the Mathematics community.

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[Activities in 2022](#)

PIMS is currently accepting proposals for events in 2022 and beyond. Proposals for events such as conferences, workshops, summer schools, Distinguished Visitors, Focus Periods, Collaborative Research Groups and related activities in the mathematical sciences are accepted. Activities should occur after April 1, 2022 or later. **Proposals will be accepted until October 1, 2021.**



CRM-Fields-PIMS Prize 2022

Nominations now Open!

Deadline: November 1, 2021

The prize recognizes exceptional achievement in the mathematical sciences



[2022 CRM-Fields-PIMS Prize - Submit your Nominations!](#)

The prize recognizes exceptional achievement in the mathematical sciences. It was established by the Centre de recherches mathématiques and the Fields Institute as the CRM-Fields prize in 1994. In 2005, PIMS became an equal partner. The winner, selected by a committee appointed by the three institutes, receives a monetary award, and an invitation to present a lecture at each institute within one year after the award is announced. We encourage nominations of women and of members of underrepresented groups. **Nominations close on November 1, 2021.**



[Registration is open for Fall 2021 PIMS Network- Wide Graduate Courses](#)

PIMS is pleased to offer two network-wide graduate courses in fall 2021: Charles Doran (University of Alberta) will teach a course on **Differential Equations in Algebraic Geometry** and Soumik Pal, Zaid Harchaoui (University of Washington) and Young-Heon Kim (University of British Columbia) will teach a course on **Optimal Transport and Machine Learning**.

FEATURE EVENTS

[PRIMA 2021 Summer School: Rational Curves and Moduli Spaces in Arithmetic Geometry](#)

August 2–4. Online.

This summer school is part of the PRIMA Special Session on Arithmetic geometry, Theory and Computation, with speakers Nicolas Addington (U Oregon), Sarah Frei (RiceU) and Brian Lehmann (Boston College). This event is suitable for graduate students and postdoctorates interested in Arithmetic Geometry.

High School students are invited to explore exciting topics in Computer Science, Mathematics and Physics in this workshop, and become fascinated about topics like Robotics, Fractals, or Astrophysics. This event is open to Grade 10-12 students from Prince George as well as high school across BC!

[Prairie Discrete Mathematics Workshop 2021](#)

Aug 13–14. University of Lethbridge.

This event brings together combinatorists from the prairie provinces and nearby locations. This workshop will be held in-person hosted by the University of Lethbridge but will ensure access for virtual participation. Confirmed speakers are: Gary Au (USaskatchewan), Nancy Clarke (AcadiaU), Mark Kayll (UMontana), Dave Morris (ULethbridge), Shahla Nasserar (RIT), Ortrud Oellermann (UWinnipeg).

[Second PIMS Summer School on Algebraic Geometry in High-Energy Physics](#)

Aug 23–27. Online.

The summer school features four mini-courses by emerging and established researchers working at the interface of these two fields. The topics range from twisted TQFTs, to N=2 supersymmetry, to BPS algebras, to elliptic fibrations.

[Summer School on Inclusive Paths Toward Number Theory](#)

Aug 23–27. Online.

This summer school will introduce students to Number Theory topics being researched throughout Alberta: algebraic number theory, diophantine geometry, and analytic number theory. The goal of this event is to promote positive cooperation and collaboration amongst students, while bringing light to equity, diversity, and inclusion issues within the study of Mathematics.

Click below for upcoming events

Scientific

Education

MEDIA



[Prof. Marcelo Laca: On PIMS and the Advancement of Mathematical Sciences across Western Canada](#)

As PIMS celebrates its 25th Anniversary, Prof. Laca reminisces on the history of his connections to the institute and reflects on how it has strengthened mathematics at the University of Victoria and across the PIMS network.

To view past lectures and other PIMS resources, please visit mathtube.org

PIMS COMMUNITY RECENT PUBLICATIONS

0955

- 2. Jishnu Ray (2020). [Rigid Analytic Vectors of Crystalline Representations Appearing in p-adic Langlands](#).

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, Postdoctoral Fellowships, individual events, and competitive prizes in mathematics.

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.



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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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 xwməθkwəyəm (Musqueam), Skwxwú7mesh (Squamish), and Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) Nations.
www.native-land.ca