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PIMS MONTHLY CONNECTION | July 2021



Hello from PIMS

As we transition into July, we have once again been reminded of and saddened by the injustices committed against many Indigenous communities across Canada. We join members of Indigenous communities all over Canada in honouring and remembering the victims of the residential schools, whose unmarked graves have been discovered in British Columbia and Saskatchewan. A statement from PIMS leadership can be read below

Beginning July 1, **Prof.** Özgür **Yilmaz** will join **PIMS** as the Interim **Deputy Director**. We thank Prof Marni Mishna for all her work at the institute. Also joining the PIMS Executive Leadership team is **Prof. Stephanie Portet**, **the new Site Director** at **the University of Manitoba**. She will be carrying on with the work started by Prof Kirill Koputun, who represented UManitoba since 2015. More details on these transitions are in the news section below.

This month we host the **PIMS Diversity in Mathematics Summer School** for the fourth time. This year the online summer school offers two streams for high school students who are in grades 9 -12, and will be held for one week. Applications for this program are open until July 5, 2021. See the feature below for details.

The second iteration of the **Math^Industry Workshop** takes place in August. Applications for this highly anticipated program for junior researchers will open on July 5. Mark your calendars!

More details on this month's featured events, news, and publications are provided below.

Sincerely, The PIMS Team

Statement from PIMS on the discovery of the remains of Indigenous children in Kamploops and Cowesses.

The Pacific Institute for Mathematical Sciences (PIMS) is saddened by the discovery of the unmarked graves of 751 people outside the former Marieval Indian Residential School at Cowessess First Nation on Treaty 4 Territory. This discovery follows the similar discovery of the unmarked graves of 215 people on the site of the former Kamloops Indian Residential School on the territory of the Tk'emlúps te Secwépemc, and many other unmarked graves across Canada that are now being discovered. These discoveries highlight the violence and discrimination propagated through the residential school system.

PIMS is a distributed institute whose member universities sit on Indigenous, First Nations, Inuit

Read the full statement from PIMS here

FEATURE EVENTS

Theta Series: Representation Theory, Geometry, and Arithmetic Conference July 5- 9, 2021

The purpose of the conference is to bring together experts from across automorphic forms, representation theory, and arithmetic connected to the theory of theta series and the theta correspondence in order to survey the most recent developments and to open up future courses of investigation. This conference marks the 70th birthday of Steve Kudla, whose mathematical work has made a profound impact on the themes of the conference.







2021 Diversity in Math High School Summer Camp

July 26- 30, 2021, Online

Hosted for a Fourth year by PIMS, Diversity in Mathematics is part of a multi-year, multi-level program geared towards promoting diversity and inclusivity in STEM. This program will not just teach exciting math, but also showcase role models and create a self-sustaining support system by training future leaders. Two offerings are available for high school students:

- High School Math Day Camp for Indigenous Students: For Indigenous students in Grades 9 or 10, transitioning into the precalculus stream of math courses in high school.
- High School Diversity in Math Day Camp: For high school students in grades 11 or 12
 who would like to explore higher-level math topics that are not part of regular school
 curricula.

The application deadline is July 5, 2021

SAVE THE DATE!

Math^{Industry} 2021

4 week virtual workshop, August 3-27

Math^{Industry} workshop is geared to graduate students and postdoctoral fellows in math who wish to gain industry skills, setting themselves up for success in their careers.



Math Industry August 3- 27, 2021

Applications open July 5, 2021.

PIMS is excited to offer the second virtual Math^{Industry} workshop for graduate students and postdoctoral fellows. This workshop is geared for junior researchers in the mathematical and statistical sciences, helping them to gain the industry skills needed for success in their careers. Participants will:

- · Build technical skills in programming and computational workflows
- Learn business skills for effective teamwork and technical report writing
- Leverage learned skills to solve industry problems

Click below for upcoming events

Scientific

Education

NEWS & ANNOUNCEMENTS



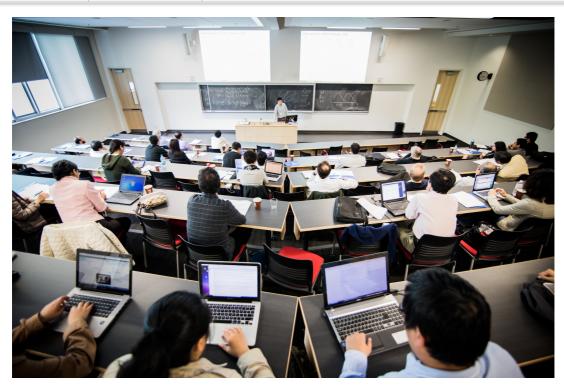
Özgür Yilmaz announced as the Interim Deputy Director at PIMS

PIMS is pleased to appoint <u>Prof. Özgür Yilmaz</u>, as the interim Deputy Director, starting on July 1, 2021. Özgür Yilmaz is a Professor of Mathematics at the University of British Columbia. PIMS is grateful to the outgoing Deputy, Prof. Marni Mishna, who has worked with PIMS in initiating and establishing strategic programs, and in streamlining many operational processes.



New PIMS Site Director at UManitoba

Please join us in welcoming <u>Stephanie Portet</u>, Professor of Mathematics, at the University of Manitoba. She begins her three-year term as Site Director on July 1, 2021. PIMS is grateful to Prof. Kirill Koputun, who has worked diligently in representing the University of Manitoba since it joined the institute in 2015. Prof Koputun has been an invaluable resource for PIMS over the past years and has worked with the executive team in the development of a number of processes at the institute. Prof. Portet's appointment is a natural continuation of this work.

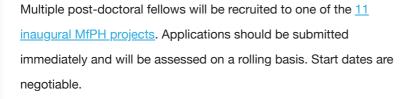


PIMS Welcomes Proposals for Activities in 2022

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.

<u>Postdoctoral Fellowships in Mathematics</u> for Public Health

The Mathematics for Public Health project (MfPH), funded by NSERC, aims to develop a national network of infectious disease modellers and public health policy makers that can rapidly respond to public health emergencies.









MEDIA



Watch it again! PIMS EDI Panel on Effective Allyship in STEM

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

PIMS COMMUNITY RECENT PUBLICATIONS

 Jishnu Ray, Feng Wei and Gergely Zábrádi (2020). <u>Multivariable (φ,Γ)-modules and</u> <u>Representations of Products of Galois Groups: The Case of Imperfect Residue Field</u>

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

Feedback

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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 Səlílwəta?/Selilwitulh (Tsleil-Waututh) Nations.

www.native-land.ca