

[Subscribe](#)[Past Issues](#)[Translate ▼](#)[View this email in your browser](#)PIMS MONTHLY CONNECTION | **December 2025**

In 1995, Thomas Wolff introduced a theoretical “snowflake,” a geometric idea showing how beauty, complexity, & structure can come together in mathematics.

Theorem A. [1, 2] Suppose ψ has sufficiently small Lipschitz norm and set

$$L = \int_{\partial D_\infty} |\nabla g_\infty \psi| \log |\nabla g_\infty \psi| dH^{n-1}$$

If $L < 0$, the Wolff snowflake D obtained from ψ by adding blips satisfies $H - \dim \mu > n - 1$, while if $L > 0$, then $H - \dim \mu < n - 1$.

Happy Holidays from PIMS

Celebrating the elegance of Mathematics in all forms.

Images Credit: Patricia Rasmussen.

[1] Lewis, John L.; Verchota, Gregory C.; Vogel, Andrew L. Wolff snowflakes. Pacific J. Math. 218 (2005), no. 1, 139--166. MR2224593

[2] Wolff, Thomas H. Counterexamples with harmonic gradients in \mathbb{R}^3 . Essays on Fourier analysis in honor of Elias M. Stein (Princeton, NJ, 1991), 321--384, Princeton Math. Ser., 42, Princeton Univ. Press, Princeton, NJ, 1995. MR1315554

Welcome to the December edition of the PIMS Connection — showcasing events and initiatives that reflect PIMS’s ongoing commitment to research, innovation, and collaboration in the mathematical sciences.

PIMS News:

- [Mathav Murugan Wins the PIMS/UBC Mathematical Sciences Early Career Award](#)

Upcoming Deadlines Across the Network:

- **Last Reminder:** [CAIMS/PIMS Early Career Award Nominations](#)
- **Last Reminder:** [PIMS Postdoctoral Fellowship Nominations](#)
- **Call Closing Soon:** [2026 Education Outreach Proposals](#)

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- December 1st-5th: [47th Australasian Combinatorics Conference](#)
- December 2025: [2025/2026 PIMS Postdoctoral Fellow Seminar Series](#)
- December 9th-12th: [Big Data before Data Science](#)
- January 16th: [Hugh Morris Distinguished Lecture: Inwon Kim](#)

PIMS NEWS



[Mathav Murugan Wins the PIMS/UBC Mathematical Sciences Early Career Award](#)

PIMS is pleased to announce that Professor Mathav Murugan has received the 2025 PIMS/UBC Mathematical Sciences Early Career Award. An Associate Professor and Canada Research Chair in Probability at UBC, Murugan is recognized for his innovative contributions to probability theory and its applications across the sciences. “His work exemplifies the innovation, depth, and rigor that PIMS seeks to celebrate,” says PIMS Director Özgür Yılmaz.

Congratulations to Professor Murugan on this well-deserved honor [...]

PIMS NETWORK DEADLINES



[Last Reminder: CAIMS/PIMS Early Career Award Nominations](#)

Deadline: December 1, 2025. There's still time to nominate an outstanding early-career researcher for the CAIMS/PIMS Early Career Award in Applied Mathematics. This \$1,000 prize recognizes outstanding research and innovation by mathematicians working in or affiliated with Canadian institutions. To submit an application, please visit the Open Nominations page [...]

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CALL FOR NOMINATIONS:
2026/27 PIMS POSTDOCORAL FELLOWSHIPS

PIMS invites nominations for outstanding young researchers in the mathematical sciences for postdoctoral fellowships

- Applications by nomination only
- Nominees must apply through [Mathjobs.org](#)

APPLICATION DEADLINE: DECEMBER 1, 2025

 Pacific Institute for the Mathematical Sciences

[Last Reminder: PIMS Postdoctoral Fellowship Nominations](#)

Deadline: December 1, 2025. PIMS invites nominations for Postdoctoral Fellowships beginning in the **2026–2027** academic year, supporting exceptional early-career researchers in the mathematical sciences at any PIMS member university. Nominations must come from a Canadian PIMS member university. Matching funds requirement has increased to \$30,000. To apply, visit the PIMS Mathjobs page [...]



 Pacific Institute for the Mathematical Sciences

2026 OPEN CALL PIMS EDUCATION OUTREACH PROPOSALS

RECEIVE BETWEEN \$500 - \$5,000 CAD IN FUNDING.

WHAT WE FUND:

- Student programs like *Math Mania* and summer camps
- Teacher workshops
- Programs and initiatives for underrepresented communities

SUBMIT BY JANUARY 31, 2026

[Call Closing Soon: 2026 Education Outreach Proposals](#)

Deadline: January 31, 2026. PIMS is accepting 2026 proposals for educational outreach in the mathematical sciences — including student camps, teacher workshops, and initiatives for underrepresented communities across the PIMS network. Funding ranges from \$500–\$5,000. Proposals are evaluated on innovation, mathematical content, feasibility, and commitment to equity, diversity, and inclusion. Please submit a proposal through the PIMS website [...]

FEATURE EVENTS

[47th Australasian Combinatorics Conference](#)

Dates: December 1-5, 2025

Location: Te Herenga Waka - Victoria University of Wellington

Invited Speakers: Johannes Carmesin (TU Freiberg), Katie Clinch (UNSW Sydney), Jim Geelen (University of Waterloo), Eunjung Kim (KAIST), Karen Meagher (University of Regina), Kerri Morgan (RMIT Australia), Luke Morgan (University of Western Australia), Rajko Nenadov

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Registration is still open. For more details and information [\[...\]](#)



[2025/2026 PIMS Postdoctoral Fellow Seminar Series](#)

Register for the [2025/26 PIMS Postdoctoral Fellow Seminar Series](#), featuring cutting-edge research from early-career mathematicians supported by PIMS. Upcoming Talks:

- **December 3rd:** [Regular Simplices in Higher Dimensions](#) - Felix Christian Clemen (University of Victoria)
- **December 17th:** Jin-Cheng Guu (University of Alberta)

Online at 1:30 PM PT / 2:30 PM MT / 3:30 PM CT.

[Big Data before Data Science](#)

Dates: December 9-12, 2025

Location: University of British Columbia

Invited Speakers: Amy Ackerberg-Hastings (MAA Convergence), Iris Clever (University of Chicago), Stephanie Dick (Simon Fraser University), Moon Duchin (Cornell University), David Dunning (National Museum of American History), Matthew Eddy (Durham University), Caroline Ehrhardt (University of Paris 8), Michael Friedman (University of Bonn), etc.

Registration is still open. For more details and information [\[...\]](#)

[Hugh Morris Distinguished Lecture: Inwon Kim](#)

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Details: We are extremely pleased to announce an upcoming lecture with Dr. Inwon Kim, Professor in the Department of Mathematics at UCLA on January 16, 2026. Further details will be announced soon.

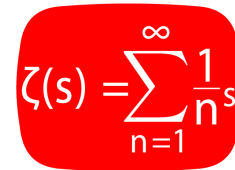
[The Hugh C. Morris Lecture Series](#) was generously endowed by Dr. Hugh Morris (1932–2012), former Chair of the PIMS Board of Directors and long-time friend of the mathematical sciences. This distinguished lecture series continues to celebrate excellence in mathematical research and scholarship.

[View our calendar](#) for more meetings and events

MEDIA

Missed a Lecture?

Watch Anytime on Mathtube. Explore a rich archive of videos and lecture notes across the mathematical sciences, including PIMS Seminars & Colloquia, at www.mathtube.org.



MathTube

ABOUT PIMS

Founded in 1996, the **Pacific Institute for the Mathematical Sciences** (PIMS) promotes discovery, understanding, and collaboration in the mathematical sciences. With a network spanning **Western Canada and Washington State**, PIMS supports research, training, and outreach through **Collaborative Research Groups**, **Postdoctoral Fellowships**, and competitive event funding. Our mission is to advance excellence in mathematics while fostering equity, diversity, inclusion, and global partnerships.

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and students through summer schools, math contests, and teacher workshops. Learn more about how your support helps us strengthen mathematical education and engagement.

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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 Səlilwətaʔ/Selilwitulh (Tsleil-Waututh) Nations.

www.native-land.ca