



Pacific Institute for the Mathematical Sciences

PIMS Connection

Greetings from PIMS!

PIMS 20th Anniversary Message

PIMS was founded in 1996 and has grown to include all major Canadian research universities west of Ontario, as well as universities in Washington and Oregon. This is a milestone for us as we celebrate 20 years of collaboration in science and innovation. Our member universities are celebrating with various events and lectures: SFU hosted an anniversary lecture featuring [Dr. Nataša Pržulj](#). This month, U Saskatchewan will feature [Dr. Gerda De Vries](#). We hope you will be able to join us for events throughout our ten sites.

Take a look at what's happening around the sites:

February 2017

- 3 February 2017 - [PIMS- SFU/CSC Seminar: Clayton Webster](#) at **Simon Fraser University**
- 3 February 2017 - [Theory at UBC Mini-Symposium](#) at the **University of British Columbia**
- 3 February 2017 - [PIMS USask 20th Anniversary Celebration](#) at the **University of Saskatchewan**
- 6 February 2017 - [PIMS-IAM Distinguished Lecture: Mirela Ben-Chen](#) at the **University of British Columbia**
- 7 February 2017 - [PIMS/AMI Distinguished Colloquium: Dr. Edriss S. Titi](#) at the **University of Alberta**
- 9 February 2017 - [Abelian Varieties Multi-Site Seminar Series: Jeff Achter](#) at **Colorado State University**
- 24 February 2017 - [PIMS-UCalgary Operations Research and Analytics Seminar Series: Dr. Mariel Lavieri](#) at the **University of Calgary**

2017 CRM-Fields-PIMS Prize

Winner: [Henri Darmon](#)

Professor Henri Darmon of McGill University is the winner of the 2017 CRM-Fields-PIMS Prize.

PIMS 20th Anniversary Celebration

Friday, February 3, 2017
3:30 PM

Biology Building, Room 106,
University of Saskatchewan

The Pacific Institute for the Mathematical Sciences (PIMS) was founded in 1996, and the University of Saskatchewan joined in 2008. Help us celebrate PIMS' and UoS' 20 years of promoting research, learning, and public awareness for the mathematical sciences.

Program
3:30pm Welcome and opening remarks

3:45pm Public Lecture (Dr. Gerda de Vries, University of Alberta):
**MAKING MATHEMATICS WITH NEEDLE AND THREAD:
Quilts as Mathematical Objects**

The connection between textiles and mathematics is intimate but not often explored, possibly because textiles and their arts have traditionally been the domain of women while mathematics was viewed as a male endeavor. Over time, however, textiles and mathematics, like art and science, are recognized for their inherent, complementary attributes. In this presentation, mathematics professor Gerda de Vries will explore the connection between textiles and mathematics, in the context of both traditional and contemporary quilts. In a sense, every quilt is a mathematical object, by virtue of the fact that it has shape and dimension. But some quilts are more mathematical than others, and in very different ways. She will share how mathematical concepts such as symmetry, topology, and algorithmic design show up in the world of quilting through whimsical and intentional design.

This lecture is for a general audience. A background in mathematics is not needed, nor the ability to sew.

4:45pm Reception
2017 by Monday January 30th at <https://research.pims.math.ubc.ca/pims20>

on [www.pimsconnection.org](#) [facebook.com/pims.math](#) [@pims_math_sask](#)

MEDIA



PIMS Public Lecture: Ken Ono - Gems of Ramanujan
November 24th 2016 - PIMS UBC

For more lectures and resources, please visit mathtube.org

PUBLICATIONS

Recent Publications from the PIMS Community:

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[Past Issues](#)

1. Achter J., Altug S.A., and Gordon J., "Elliptic curves, random matrices and orbital integrals," *Pacific Journal of Mathematics*, Vol. 286, 2017

2. Assaf S., and Pal K., "Partial metric spaces with negative distances and fixed point theorems," *Topology Proceedings*, Vol. 49, 2017

3. Bernoff A., Lindsay A., and Ward M.J., "First Passage Statistics for the Capture of a Brownian Particle by a Structured Spherical Target with Multiple Surface Traps," *SIAM Multiscale Modeling and Simulation*, Vol. 15, 2017

4. Budney R., and Hillman J., "A small infinitely-ended 2-knot group," *Journal of Knot Theory and Its Ramifications*, Vol. 26, 2017

5. Creutzig T., and Linshaw A.R., "Orbifolds of symplectic fermion algebras," *Transactions of the American Mathematical Society*, Vol. 369, 2017

6. Crump I., DeVos M., and Yeats K., "Period Preserving Properties of an Invariant from the Permanent of Signed Incidence," *Annales de l'Institut Henri Poincaré D*, Vol. 3, 2016

ABOUT US

The Pacific Institute for the Mathematical Sciences (PIMS) was created in 1996 by the community of mathematical scientists in Alberta and British Columbia, and subsequently extended to 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 enrich **public awareness** of and education in the mathematical sciences, and to create mathematical **partnerships** with similar organizations in other countries (with a particular focus on the Pacific Rim). PIMS funds Collaborative Research Groups, Post-Doctoral Fellowships and individual events on a competitive basis.



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