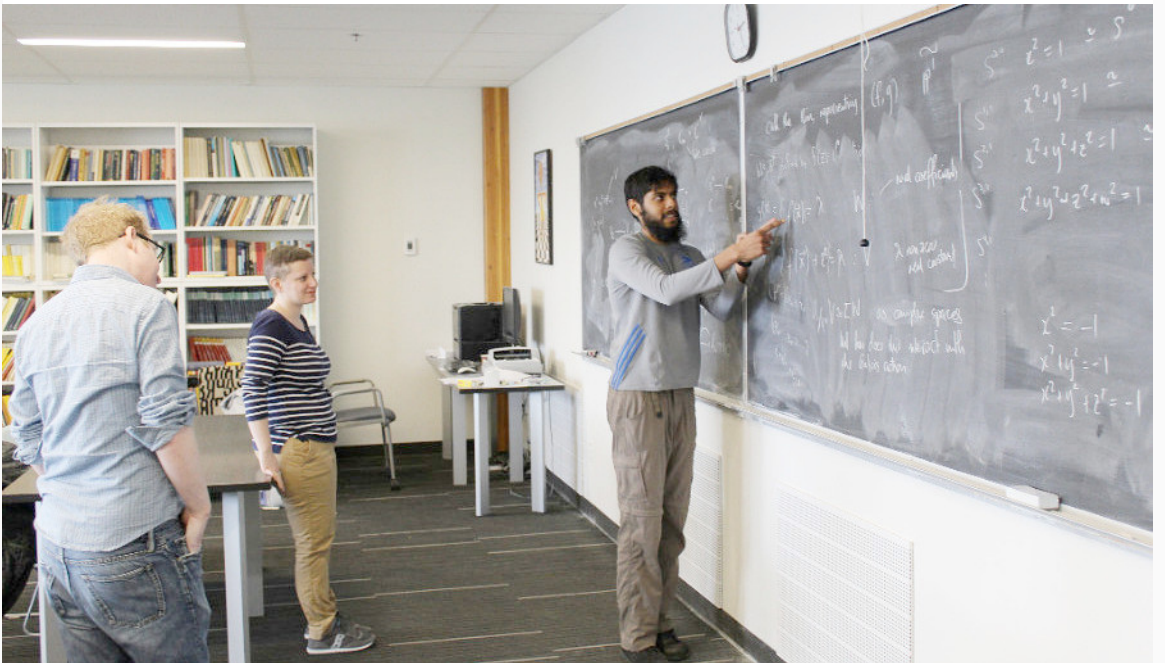


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MONTHLY NEWSLETTER | April 2018



Hello From PIMS!

March was a busy month that included the launch of the [Project Callysto website](#), the PIMS annual general board meeting at UWashingon, Distinguished Lectures at [UBC](#) and [UManitoba](#), [Computer Science](#) and [Statistical Seminars at SFU](#), [Math Camp 2018](#) and the [Canadian Math Kangaroo Contest](#) at URegina. April kicks off with [PIMS-ULethbridge Distinguished Visitor, Jean-Marc Deshouillers's](#) four-lecture series: An Introduction to Automatic Sequences. Also, UBC hosts [Frances Kirwan for a Distinguished Colloquium](#) on April 6.

ELMACON is turning 20! Our annual mathematics contest for elementary students takes place on April 28th and we're looking for volunteers (details [here](#)).

See all that we have in store below.

Sincerely,
The PIMS Team

FEATURE EVENTS



[PIMS | UBC Mathematics Distinguished Colloquium: Frances Kirwan](#)
April 6 at UBC

goes back to Riemann himself in the nineteenth century.



[PIMS Lunchbox Lecture: Artem Korobenko](#)

April 5 at Odd Fellows Building, Calgary

Computational Fluid-Structure Interaction Framework:

From Theory to Applications



[PIMS | ULethbridge Distinguished Visitor: Jean-Marc Deshouillers](#)

April 4-11 at ULethbridge

Four-lecture introductory series on Automatic Sequences

ALL PIMS EVENTS | April 2018

Scientific

Educational

Industrial

NEWS & ANNOUNCEMENTS



[PIMS is Calling All Volunteers for the 20th Annual ELMACON](#)

ELMACON is looking for volunteers for our 20th anniversary competition taking place on **Saturday, April 28, 2018.**



[Callysto Website Launches](#)

How do we thread the fundamentals of **computational thinking** and a **digital toolkit** throughout our **K-12 education system**? We are answering this question with **Callysto**: callysto.ca



[Ben Williams Wins 2018 PIMS | UBC Mathematics Faculty Award](#)

As the recipient of this award, Dr. Williams will receive **\$1000** and will be **invited to give a lecture in the fall of 2018**.

MEDIA

Multi-group Cholera Model

The population is divided into n groups, each group partitioned into S_i, I_i, R_i , and W_i is the pathogen concentration from shedding by individuals in I_i . The model includes direct and indirect transmission both within and between groups

$$S_i' = \Lambda_i - \sum_{j=1}^n \beta_{ij} \phi_i(S_i) \phi_j(I_j) - \sum_{j=1}^n \lambda_{ij} \phi_i(S_i) \psi_j(W_j) - d_i S_i$$

$$I_i' = \sum_{j=1}^n \beta_{ij} \phi_i(S_i) \phi_j(I_j) + \sum_{j=1}^n \lambda_{ij} \phi_i(S_i) \psi_j(W_j) - \mu_i I_i$$

$$W_i' = h_i(I_i) - \delta_i W_i \quad i = 1, \dots, n$$

with $\Lambda_i > 0, d_i > 0, \mu_i = d_i + \gamma_i + \alpha_i > 0$ and $\delta_i > 0$. Nonnegative ϕ_i, ϕ_j, ψ_j and h_i are differentiable, solutions with nonnegative initial conditions exist and are unique. Additional reasonable assumptions on $\phi_i, \phi_j, \psi_j, h_i$ include mass action incidence and linear shedding.

Pauline van den Driessche University of Victoria B.C., Canada Models for the Spread of Cholera 13 / 38

[Dr. Pauline van den Driessche | Models for the Spread of Cholera](#)
 Thu, Jan 18, 2018 - PIMS, University of Manitoba
 PIMS-UManitoba Distinguished Lecture

For more lectures and PIMS resources, please visit mathtube.org

1. Bauch J., "[Lattices over polynomial rings and applications to function fields](#)," Mathematics of Computation, submitted 2017.
2. Xu B., "[L-packets of quasisplit \$GSp\(2n\)\$ and \$GO\(2n\)\$](#) ," Mathematische Annalen, 2017 (online).
3. Tanabe N., Hamieh A., "[Determining Hilbert modular forms by central values of Rankin-Selberg convolutions: The weight aspect](#)" The Ramanujan Journal, published 2017
4. Dale Rolfesen, "[Ordered groups as a tensor category](#)," to appear, Pacific Journal of Mathematics, 2018

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, Post-Doctoral Fellowships, individual events, and competitive prizes in mathematics.

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