Pacific Institute *for the* Mathematical Sciences

PIMS CONNECTION

MONTHLY NEWSLETTER | June 2018

Greetings from PIMS

Welcome to a June filled with PIMS sponsored and organized events across the country. It's a busy time of year!

The 2018 bcdata Science Workshop is underway at PIMS Central Office (UBC), with projects ranging from mining to connecting genetic mutations. Later this month, the 2018 PIMS Datathon will be hosted in Calgary, following the 15th International Conference on Quantum Physics and Logic at Dalhousie University, the 2018 Canadian Mathematics Education Study Group at Quest University, the Prairie Discrete Math Workshop at Brandon University and the Joint Canada-Asia Pacific Conference on General Relativity and Relativistic Astrophysics at the University of Alberta, just to name a few.
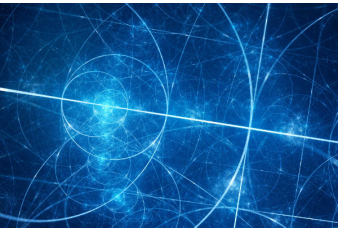
All this an more coming in June! Check it all out below.

Sincerely,
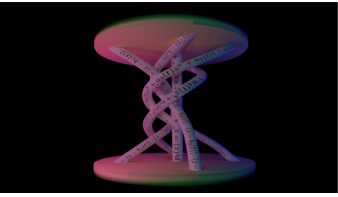The PIMS Team

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FEATURE EVENTS

2018 PIMS bcdata Science Workshop
June 4-8 at UBC

This one-week workshop includes both theoretical and practical components of tackling data sets as presented by guest speakers from industry and government.

Séminaire de Mathématiques Supérieures
June 4-15 at the Fields Institute
Lectures will focus on the following topics: higher categorical structures in geometry, derived geometry, their application in geometry and physics, as well as factorization algebras.

2018 Summer School on Geometry and Topology
June 11-15 at the University of Chicago
The third in a series of NSF funded summer schools in geometry and topology

34th Conference on the Mathematical Foundations of Programming Statistics (MFPS 2018)
June 6-9 at Dalhousie University
MFPS conferences are dedicated to the areas of mathematics, logic, and computer science that are related to models of computation in general, and to semantics of programming languages in particular.

ALL PIMS EVENTS | April 2018

Scientific

Educational

Industrial

NEWS & ANNOUNCEMENTS

The Power of Relationship Building for Indigenous Student Success

PIMS UManitoba Education Coordinator Darja Barr writes on efforts to **bring mathematics to Indigenous students**. At the University of Manitoba, one of the Five Strategic Priorities that are laid out in our strategic plan is *Creating Pathways for Indigenous Achievement*.

PIMS Sponsors AARMS Industrial Problem Solving Workshop at Dalhousie University
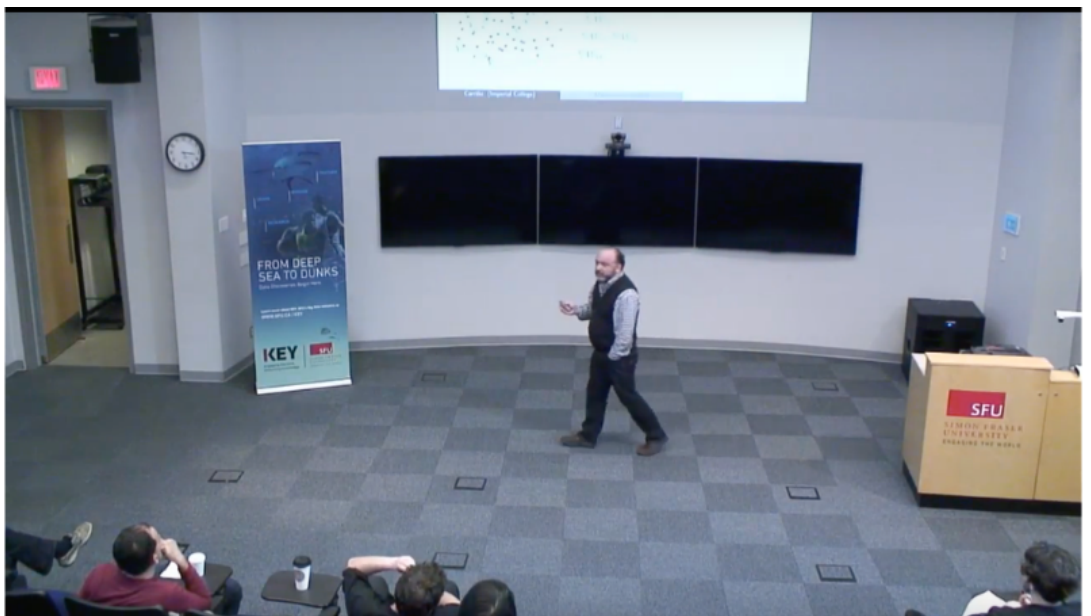
PIMS is excited to sponsor the upcoming AARMS Industrial Problem Solving Workshop (IPSW) to be held at Dalhousie from **July 3 to 6, 2018**. During this workshop, faculty and postdocs will work collaboratively with graduate and undergraduate students on industrial problems posed by Atlantic Canadian companies.

PIMS Celebrates Record-Breaking 20th Annual ELMACON

With a **record-breaking attendance of 320 participants**, this year's competition — **the 20thannual ELMACON** — held on April 28 at UBC, did not disappoint.

MEDIA

Jose Carrillo | Repulsive-attractive models in collective behaviour and applications
Friday, April 6, 2018 - PIMS, Simon Fraser University
PIMS/CSC Distinguished Speaker

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

PIMS COMMUNITY RECENT PUBLICATIONS

Rayan S., "~~...quivers and Higgs bundles~~," Bulletin des Sciences Mathematiques, vol. 146, 2018.

2. Scully, S., "The Artin-Springer theorem for quadratic forms over semi-local rings with finite residue fields," Proceedings of the American Mathematical Society, 146, 2018

3. Kulkarni A., Maxedon G., and Yeats K., "Some results on an algebro-geometric condition on graphs," Journal of the Australian Mathematical Society, Vol. 104, 2018

4. Courtiel J., Fusy E., Lepoutre M., and Mishna, M., "Bijections for Weyl Chamber walks ending on an axis, using arc diagrams," European Journal of Combinatorics, Vol. 69, 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.

FOLLOW US!

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