PIMS Connection

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![Pacific Institute for the Mathematical Sciences — PIMS Connection]

Greetings From PIMS!

July has arrived and we have just wrapped up our 2017 Summer School in Probability but there is little time to rest as we have more summer schools, conferences, education outreach, and industrial events coming this month. After talks from Cedric Villani and Martin Hairer in May and June respectively, we are extending our run of visiting Fields Medalists to three months in a row with Steve Smale speaking at our Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen conference starting July 30th. Along with exciting events like our PIMS/CSC Seminar featuring Roland Herzog and the CRG Conference on Geometrical Analysis PIMS is also proudly sponsoring the International Conference on Women in Physics at the University of Birmingham, and the Summer School on Contemporary Dynamical Systems (SMS) in Montreal at the Centre de Recherches Mathématiques. On the education side, our 2017 Math Summer School for Elementary School Teachers starts on July 10th at the Britannia Community Centre. It is one of our most important education outreach programs and we are excited to be back at it this year.

Here is what's happening around the sites: July 2017

4 July 2017: SCAIM - Leevan Ling on Kernal Based Methods and Some Adaptive Algorithms at the **University of British Columbia**

7-9 July 2017: Special Western Canada Linear Algebra Meeting at **Banff, Alberta**

7 July 2017: PIMS/CSC Seminar - Roland Herzog at **Simon Fraser University**

10-21 July 2017: Summer School on Contemporary Dynamical Systems at the **Centre de Recherches Mathématiques**

10 July - 4 Aug 2017: 2017 Math Summer School for Elementary School Teachers at the **Britannia Community Centre**

16-22 July 2017: CT 2017: International Category Theory Conference at the **University of British Columbia**

16-20 July 2017: International Conference on Women in Physics at the **University of Birmingham, UK**

17-21 July 2017: **Positivity Conference** at the **University of Alberta**

24-27 July 2017: **Math Congress of the Americas** at **McGill University**

24-28 July 2017: **CRG Conference on Geometric Analysis** at the **University of British Columbia**

26-28 July 2017: Canadian Conference on Computational Geometry at the **Carleton University**

30 July - 4 Aug 2017: **Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen** at the **University of British Columbia**

31 July - 2 Aug 2017: **International Conference on Preconditioning Techniques for Scientific and Industrial Applications** at the **University of British Columbia**

31 July - 5 Aug 2017: Graduate Mathematical Modelling in Industry Workshop at the **University of Manitoba**

PIMS congratulates Ben Adcock and Hau-Tieng Wu **co-winners of the 2017 Early Career Award in Applied Mathematics**. Professors Adcock and Wu will be presented with their award, and each will deliver a plenary lecture, at the upcoming Annual Meeting of CAIMS*SCMAI, at Dalhousie University this month.

Math Mania Reaches First Nations Communities in Manitoba! Special thanks to PIMS Education Coordinator Darja Barr.

Upcoming Industrial Events:

- BC Data Science Workshop
- CAIMS Meeting in Halifax
- 2017 Graduate Math Modelling in Industry Workshop
- Industrial Problem Solving Workshop

Third PRIMA Congress: It only comes around every four years. The third PRIMA Congress is fast approaching. Check out the PRIMA website for the congress program, a list of speakers and more.

MEDIA

On Coin Tosses, Atoms, and Forest Fires: Fields Medalist Martin Hairer
June, 16th 2017 - PIMS, University of British Columbia

For more lectures and resources, please visit mathtube.org

PUBLICATIONS

Recent Publications from the PIMS Community:

1. Achter J., Altug S.A., and Gordon J., "Elliptic curves, random matrices and orbital integrals." *Pacific Journal of mathematics,* Vol 286, 2017
2. Achter J., and Howe E.W., "Split albelian surfaces over finite fields and reductions of genus-2 curves," *Algebra and Number Theory*, Vol. 11, 2017
3. Adem A., Gomez J., Lind J., and Tillman U., "Infinite loop spaces and nilpotent K-theory," Algebraic and Geometric Topology, Vol. 17, 2017

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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