PIMS Connection

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Greetings From PIMS!

The busy season continues in August as summer schools, conferences, education outreach, and industrial events are in full swing this month. On July 31st, Steve Smale became our third visiting Fields Medalist in three consecutive months with a talk that kicked off our Current Trends in Dynamical Systems and the Mathematical <u>Legacy of Rufus Bowen</u> conference which continues into the first week of August. On the industrial front, the Graduate Math Modelling in Industry Workshop at the University of Manitoba, the Industrial Math Modelling Workshop in Montreal, and the BC Data Science Workshop in Vancouver are days away from kick-off. PIMS Directer James Colliander will be representing the institute at the Third PRIMA Congress in Oaxaca, Mexico. Never a dull moment at PIMS.

Please note: PIMS Central (UBC office) will be closed from August 21-25, 2017.

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

10 July - 4 Aug 2017: 2017 Math Summer School for Elementary

School Teachers at the Britannia Community Centre

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 <u>Preconditioning Techniques for Scientific and Industrial</u>

Applications at the **University of British Columbia**

31 July - 5 Aug 2017: Graduate Mathematical Modelling in Industry

Workshop at the University of Manitoba

5 Aug 2017: International Collaborative Meeting on Dynamical **Systems** at the University of British Columbia

6 - 12 Aug 2017: Collaboration on Lifting and Enabling at the **University of Calgary**

12 - 14 Aug 2017: Summer School on Differential Equations and

Nonlinear Analysis at the University of Alberta

14 - 18 Aug 2017: Third PRIMA Congress in Oaxaca Mexico

14 - 18 Aug 2017: Women in Numbers at Banff, Alberta

15 - 19 Aug 2017: XI Americas Conference on Differential Equations

and Nonlinear Analysis at the University of Alberta

21 - 25 Aug 2017: Lie Theory, Cohomology, and Geometry in

Wildrose Country at the University of Alberta

21 - 25 Aug 2017: PIMS Central (UBC Office) Closed

28 Aug - 1 Sept 2017: Workshop on combinatorics of group actions

and its applications at St. John's, Newfoundland

Canadians Land on Jupyter

Director James Colliander discusses how the PIMS Innovation Platform is working to democratize access to indemand mathematical expertise through a state-of-the-art computing environment that supports research, teaching, and training activities.

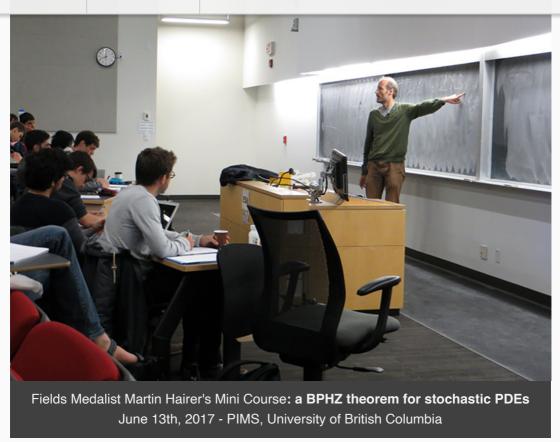
Fields Medalist Martin Hairer Sits **Down With PIMS**

PIMS chats with Fields Medalist Martin Hairer on Probability, finding the time for research, advice for aspiring mathematicians and more.

Upcoming Industrial Events:

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





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.







Mailing address:

Pacific Institute for the Mathematical Sciences
The University of British Columbia
4176-2207 Main Mall
Vancouver, BC V6T 1Z4
Canada

 $\textbf{Web:} \ \underline{www.pims.math.ca} \ \ \textbf{I} \ \ \textbf{Twitter:} \ \underline{@pimsmath} \ \ \textbf{I} \ \ \textbf{Facebook:} \ \underline{www.facebook.com/pimsmath} \ \ \textbf{I} \ \ \underline{\textbf{Mathtube.org}}$

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