

Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | July 2019



Hello from PIMS

The summer event season continued unabated into June with several high-profile events and workshops.

UBC held the annual 5-day Arithmetic Topology Workshop (shown in the photo above), UVic hosted Dr. Simon Levin for #LevinFestUvic2019, and USaskatchewan organized a 5-day Summer School on Algebraic Geometry in High-Energy Physics.

IMPORTANT NOTICES:

1. **Seeing Black Holes With Light and Particles, with the Royal Astronomical Society, USaskatchewan, July 10.** [Register now.](#)
2. **PIMS CRG Summer School: Deep Learning for Computational Mathematics at SFU, July 22 - 25.** Registration is closed. [Details here for participants.](#)
3. **2019 Diversity in Mathematics, July 22 - Aug 2, UBC.** [Register now.](#)
4. **Scientific Grand Challenges and New Perspectives in Applied Mathematics: Ocean, Atmosphere and Climate Sciences, July 24 - 26, UVic.** [Register now.](#)

There are a number of fantastic events coming up this summer so please take a look at our [calendar](#).

Sincerely,
The PIMS Team

FEATURE EVENTS



[UVic Hugh Morris Lecture, July 24: Gerta Keller, Princeton](#)

DINOSAUR WARS: Extinction by Asteroid or Volcanism? Are we the Dinosaurs of the 6th Mass Extinction?

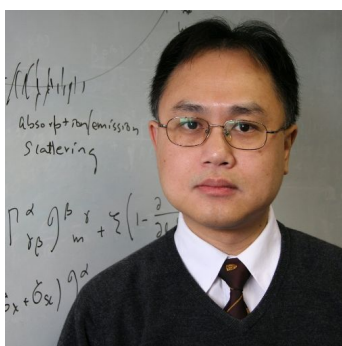
This lecture highlights the four decades of the dinosaur wars, the increasing acceptance of volcanism’s catastrophic effects and likely cause of the mass extinction and the resulting ad hoc revisions to accommodate the impact theory. The talk ends with the ongoing 6th mass extinction initiated by rapid fuel burning that is causing the most rapid climate warming in Earth’s history and ocean acidification, which is predicted to reach the 6th mass extinction in as little as 50-75 years and maximum of 250 years.



[Scientific Grand Challenges and New Perspectives in Applied Mathematics: Ocean, Atmosphere and Climate Sciences](#)

July 24-26 at UVic

This is a conference in honour of **Professor Andrew J. Majda’s** 70th birthday. There is a long list of fantastic speakers giving talks on a range of topics.



[Public Lecture in Collaboration with the Royal Astronomical Society](#)

Wednesday, July 10 at the University of Saskatchewan

Kinwah Wu from Mullard Space Science Laboratory of University College London gives a talk on seeing black holes with light and particles



[Data Science Industrial Fellowship program](#)

program. In August, PIMS and Cybera will host a month-long workshop pairing industry partners together with fellows in data science at both the University of Calgary and University of Alberta PIMS sites.

The workshop is aimed at start-ups, entrepreneurs or other small to medium businesses who are looking to start their first data science project. Eligible fellows will be current or recent students, post-doctoral fellows or industry experts looking to gain new skills and expertise in the field of data science.

Please stay tuned [here](#) for further information and calls for applications.

Click below for all events | July 2019

Scientific

Educational

Industrial

NEWS & ANNOUNCEMENTS

PIMS Math
A consortium of 10 universities promoting research in and application of the mathematical sciences of the highest international calibre.

Latest

- Diversity in Math: Leading From The Front**
The DIM program is sort of a multi-year, multi-level program geared towards promoting diversity and inclusivity in Canadian STEM fields.
- Étienne Ghys: A Life Less Ordinary**
Throughout his career, renowned French mathematician Étienne Ghys has ventured off the beaten path for the benefit of the subject he has...
- Saving Lives With Data and Math**
University students at the PIMS BC Data workshop identify certain proteins that are highly related to sepsis fatality rates, prompting...
- Weaving A New Future For Indigenous Education**
Math is perhaps not the first thing that comes to mind when thinking about traditional First Nations basket weaving, but it's becoming...

PIMS Medium Blog

PIMS has recently updated the design of its Medium blog and added some great new content. The articles include interviews with renowned mathematicians and PIMS postdocs, highlights of big events, and the latest news from the wider PIMS community. Check it out [here](#). If you would like to write an article for this publication, please reach out to social@pims.math.ca.



Jun 10-14, 2019, at the University of British Columbia

The workshop saw over 100 participants spend 5 days at the University of British Columbia and enjoy a wide range of mini-courses and talks on this emerging area. The workshop introduced 'Ask an Expert' sessions during coffee breaks, where small groups could informally discuss specific questions with an expert in the field.



[PIMS UAlberta holds Math Mania Event](#)

The PIMS site at the University of Alberta held their third annual Math Mania event in June. The event was put on by undergraduate math students and saw over 120 students from grades two to five spending an hour-and-a-half working through puzzles, games, mazes and crafts throughout the day.





[Levin Fest Celebrates Simon Levin's Honourary PhD from UVic](#)

To celebrate the conferral of UVic Honorary Doctor of Science to Dr. Levin, and to raise the role of mathematical biology at PIMS Universities, members of the UVic Biology and the Math & Stats departments hosted "Levin Fest" which included a symposium by Dr. Levin himself.



Undergraduate Data Mining Competition: DataFest

The PIMS sponsored DataFest event was held at MacEwan University where undergraduate participants learned new techniques to analyze complex data and learned to work as a team to analyze data.

Everyone had a lot of fun, produced some interesting results, and got excited about statistics.



Foundational Methods in Computer Science (FMCS) Workshop

The 27th meeting of the FMCS workshop was held May 28 - June 2, 2019, at the Barrier Lake Field Station at the University of Calgary, with an international mix of participants.

The theme of this year's workshop was differential and tangent categories, higher category theory and applications of these

MEDIA



[Diversity in Math: Leading From The Front](#)

PIMS discusses the importance of the Diversity in Math program with Prof. Malabika Pamanik and past participants of the program.



[Dr. Levin: Mathematical ecology: A century of progress, and challenges for the next century](#)

The subject of mathematical ecology is one of the oldest and most exciting in mathematical biology, and has helped in the management of natural systems and infectious diseases.

PIMS COMMUNITY RECENT PUBLICATIONS

1. Reichstein. Z., Vistoli. A., "[Essential dimension of nite groups in prime characteristic](#)" C. R. Math. Acad. Sci. Paris 356 (2018), no. 5, 463{467.
2. Nicolau, S Aiex., "[Non-compactness of the space of Minimal Hypersurfaces Non-compactness of the space of minimal hypersurfaces](#)" Math. Ann. 370 (2018), no. 1-2, 191-208.
3. Songhafouo P., and Tsopm'en'e P. A., "[Symmetric multiplicative formality of the Kontsevich operad](#)" J. Homotopy Relat. Struct. 13 (2018), no. 1, 225–235
4. Ghioca. D., Hu F., "[Jordan property for algebraic groups and automorphism groups of projective varieties in arbitrary characteristic](#)" To appear in Indiana Univ. Math. Journal

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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