



PQS2D

Programmable Quantum Simulators
based on 2D Materials



NEWSLETTER

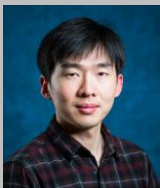
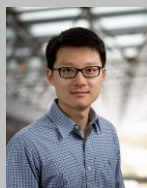
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ENGAGEMENT

APS Global Physics Summit – March 15-20, 2026 - Denver

Prof. Adina Luican-Mayer (uOttawa), **Prof. Louis Gaudreau** (uSherbrooke), **Prof. Adam Wei-Tsen** (uWaterloo), and **Prof. Ziliang Ye** (UBC), together with members of their research groups, participated in the APS Global Physics Summit held in March 2026 in Denver.

During the conference, they presented several publications and shared recent research advances in the areas of two-dimensional materials, twisted graphene, single-photon emitters, many-body systems, and multiferroics.



2026 CAP Congress – June 24th, 2026 – Ottawa, Symposia Day - Advancing Quantum Simulation based on 2D Materials Through Canadian Collaboration

Prof. Adina Luican-Mayer, **Prof. Pawel Hawrylak**, and **Prof. Louis Gaudreau** are organizing a symposium dedicated to PQS2D. The symposium will feature invited speakers—**Prof. Valentin Crepel**, **Prof. Peter Grütter**, **Prof. Sergio de la Barrera**, **Dr. Justin Boddison-Chouinard**, and **Dr. Daniel Miravet**—as well as contributed talks. A PQS2D business dinner will take place in the evening. More details: [2026 CAP Congress - Symposia Day](#)

RESEARCH HIGHLIGHT



[Bilayer graphene quantum dots as a quantum simulator of Haldane topological quantum matter](#), APS Physical Review Letters 136, 086604, February 2026, Prof. Pawel Hawrylak and co-authors

[Magnetism and hidden quantum geometry in charge neutral twisted trilayer graphene](#), Nature, Scientific Reports 616, April 2026, Prof. Pawel Hawrylak and co-authors

[Moiré excitons in generalized Wigner crystals](#), Proceedings of the National Academy of Sciences, Volume 123 - Issue 14, March 2026, Prof. Ziliang Ye and co-authors

NEXT SEMINAR

PQS2D and Science Colloquium Seminar – May 7th, 2026, 2:45PM – University of Ottawa (ARC233) & Online

Prof. Juanita Bocquel (uSherbrooke) will deliver a Lecture on the theme of NV centers in diamond: Insights into quantum sensing for materials.

Don't miss it! More details: [PQS2D Seminars](#)

