



# PQS2D

Programmable Quantum Simulators  
based on 2D Materials



## NEWSLETTER

Issue 5 | Spring 2025

### ENGAGEMENT

NSERC Quantum Alliance Consortia Day – February 18<sup>th</sup>, 2025 – Toronto

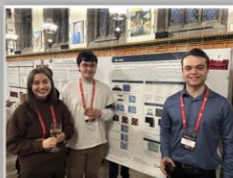
Members of the NSERC Quantum Alliance Consortia hosted a special one-day workshop. PQS2D co-principal investigators and students participated in presentations, exchanged ideas, and fostered research collaborations with fellow consortia members.



Quantum Days 2025 – February 19<sup>th</sup> to 21<sup>st</sup>, 2025 – Toronto

The PQS2D community was well represented and actively engaged in the poster sessions.

Professor Adina Luican-Mayer moderated the panel on training the quantum workforce. PQS2D co-principal investigators contributed to several sessions.



APS March 2025 - March 16<sup>th</sup> to 21<sup>st</sup>, 2025 – Anaheim (USA)

PQS2D students had an excellent opportunity to attend talks by renowned researchers and to present their own work.

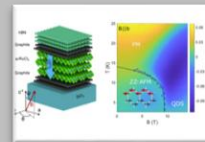
Alina Wania Rodrigues won an APS travel award! Congratulations!



### Research Advances

ECS Meeting – May 18<sup>th</sup> to 22<sup>nd</sup>, 2025 – Montreal

Professor Mathieu Massicotte presented the research work 'Giant Anisotropic Magnetoresistance in Few-Layer  $\alpha$ -RuCl<sub>3</sub> Tunnel Junctions'.



PQS2D and Science Colloquium Seminar – May 22<sup>nd</sup>, 2025 – Ottawa

Professor Louis Gaudreau discussed the latest publication in Science Advances 'Valley-spin polarization at zero magnetic field induced by strong hole-hole interactions in monolayer WSe<sub>2</sub>'.

