PSD MIXER May 17th 2024

: Friday, May 17th, 2024

: 2:30pm

: via Zoom and in the Auditorium

: Pizza will be available in-person

: Kick back, relax, and have fun!

ZOOM

https://ubc.zoom.us/j/69013741984?pwd=TjlkNUpaRDJ4V1hNRGlOREQwL01SQT09

Meeting ID: 690 1374 1984
Passcode: 066470

BY PHONE

Join by Telephone - For higher quality, dial a number based on your current location.

Dial Canada:

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PLEASE KEEP YOUR MICS MUTED

"WHAT'S THE GIST, PHYSICIST?"

Join us for another afternoon of division updates, science, community, and good food!

Tentative Agenda:

- Division updates w/ Petr (~20 min)
- Q+A w/ Petr (~5 min)
- "Probing physics beyond the Standard Model with molecular ion 227ThF+" presented by Kia Boon Ng (~20 min). Abstract on the following page!
- Pizza and pop!

REJOICE!

Physical Sciences now has a subscription mailing list! You can subscribe here to make sure you get all the email updates for the division!

“Probing physics beyond the Standard Model with molecular ion 227ThF+” – Kia Boon Ng

The Standard Model of particle physics is one of the most successful models in explaining how the world works at a microscopic level, but it is considered to be incomplete. Efforts on the theoretical front have sought to extend the Standard Model with new physics to explain intriguing open questions such as the matter-antimatter asymmetry in the universe. New physics can, for example, manifest as electric dipole moments (EDMs) in atomic/molecular or subatomic systems. Measurements of EDMs in these systems can shed light on the nature of new physics. Following a brief overview of general scientific ambitions at RadMol, I will be explaining how we intend to perform quantum control of singly charged thorium-227 monofluoride (227ThF+) to probe for physics beyond the Standard Model.