

PSD MIXER MAY 2022

: Friday, May 13, 2022

: 2:30pm

: via Zoom and in the Auditorium

: Join us in person if you're comfortable

: Turn on your camera if you're online (and if you're comfortable)

: Snacks will be available in-person

ZOOM

<https://ubc.zoom.us/j/66532167823?pwd=OGNWZHVEemUvRTJldTQrVDZCV21qdz09>

Meeting ID: 665 3216 7823

Passcode: 492191

BY PHONE

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

Dial Canada:

+1 778 907 2071 (Vancouver)

+1 647 374 4685 (Toronto)

+1 647 375 2970 (Toronto)

+1 647 375 2971 (Toronto)

+1 204 272 7920 (Manitoba)

+1 438 809 7799 (Montreal)

+1 587 328 1099 (Alberta)

+1 613 209 3054 (Ottawa)

"WHAT'S THE GIST, PHYSICIST?"

Join us for another Friday afternoon of division updates, science, community, and some food on us!

Tentative Agenda:

- Division updates w/ Petr (~10 min)
- Q+A w/ Petr (~5 min)
- Science Talk w/ Derek Fujimoto: "Beta-detected NMR: A material application of particle and nuclear physics" (~20 min). [Abstract on the next page!](#)
- Food and hang-out time!

We hope to see many of you there! As division communication continues to be a challenge, we encourage you to please check in with your colleagues if they received this invite. If they haven't, please reach out to Allayne (sciencediv@triumf.ca) to let her know!

PLEASE KEEP YOUR MICS
MUTED



“BETA-DETECTED NMR: A MATERIAL APPLICATION OF PARTICLE AND NUCLEAR PHYSICS” – PRESENTED BY DEREK FUJIMOTO

Nuclear magnetic resonance (NMR) has long been a staple experiment for physicists and chemists across the globe. This powerful technique is capable of measuring the microscopic properties of materials, allowing scientists to identify chemical bonds and how molecules are structured. Perhaps the best-known application of NMR is in the field of medicine (have you ever needed an MRI?). At TRIUMF, we have one of the world's only beta-detected NMR spectrometers. In this talk, I will explain what is unique about this relatively unknown variant of NMR, how it works, and what we can learn from it in the context of my own interests in plastics and liquids.