

PSD MIXER SEPTEMBER 2022

: Thursday, September 29, 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/64479958095?pwd=N0RhUkVhTHdHWUtDMlhZL3hwN0NiQT09>

Meeting ID: 644 7995 8095
Passcode: 341042

BY PHONE

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

Dial Canada:

+1 778 907 2071 (Vancouver)
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+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 snacks!

Tentative Agenda:

- Division updates w/ Petr (~10 min)
- Q+A w/ Petr (~5 min)
- “What is Lattice QCD and why do we need it?” – Richard Woloshyn. [Abstract on the next page!](#) (~20 min)
- 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



“WHAT IS LATTICE QCD AND WHY DO WE NEED IT?” - PRESENTED BY RICHARD WOLOSHYN

Quantum chromodynamics (QCD) is a mathematical description of the strong interaction which binds quarks into particles like protons, neutrons, pions, etc. Lattice QCD is a formulation of the model which assumes that space and time are not continuous but form a discrete grid. An advantage of this formulation is that it allows computers to do QCD calculations. I will give a brief non-technical overview of lattice QCD and highlight a few examples where it is being applied to problems of current interest in particle physics.