

# Particle Physics Faculty Meeting

- Agenda
  - News/Update
  - Committee updates



*TRIUMF is located on the [traditional, ancestral, and unceded territory of thex<sup>w</sup>məθk<sup>w</sup>əyəm \(Musqueam\) people](#), who for millennia have passed on their culture, history, and traditions from one generation to the next on this site.*

*TRIUMF's home has always been [a seat of learning](#).*

## CNSC Inspection

- **Dates:** Start on site April 15, 2024; estimated 4 days (full inspection will be from April 12-24)
- **Context:** This inspection will focus on the Management System SCA (Safety and Control Area) as identified in TRIUMF's Licence Condition Handbook. This covers all the processes, policies, procedures – and their accompanying records – relevant to the TRIUMF Quality Manual (Document-611).
- **Scope:** This inspection's purpose is to verify the implementation of processes/policies put in place by TRIUMF to address findings from the inspection of the Management System SCA conducted in February 2021.
- **Criticality:** TRIUMF must demonstrate compliance to CSA N286-12 (Management system requirements for nuclear facilities). This is a regulatory requirement and is critical for our licence and ongoing operations, and failure to demonstrate compliance could jeopardize our licence or risk major operational impacts, including (in a worst-case scenario) the potential shut-down of all TRIUMF operations.

## Training Records

- Next CNSC inspection, April 15-19
- Focus on management system and training
- Joint Tiger Team & LCH Taskforce Meeting to coordinate this
- Need to make sure
  - All training plans are up to date
  - Check with your groups, that there are no
    - Expired training
    - All training records are completed
    - If training is no longer needed, please unenroll

## UCN Search

- Have a long list of initial interviews
  - Search committee
    - Chen-Yu Liu (chair), University of Illinois Urbana-Champaign
    - Brad Plaster, University of Kentucky
    - Jeff Martin, University of Winnipeg
    - Isabel Trigger, TRIUMF
    - Ruediger Picker, TRIUMF

## Various

- Next PP-EEC Thursday, May 2<sup>nd</sup>
- The deadline for submission of all Proposals, Progress Reports, and Letters of Intent is Wednesday, April 17th, at 23:59 PT
- New committee
  - Deborah Harris (York/FNAL) chair
  - Concettina Sfienti (Mainz)
  - Elise Novitski (UWashington)
  - Yan Friedrich (TU Munich)
  - Makoto Fujiwara (TRIUMF)
  - David McKeen (TRIUMF)
- NSERC grant outcomes?
- Federal budget announcement next Tuesday!

## Various

- Today's seminar:

Speaker: Simon Viel (Carleton U)

Title: Searches for new physics with noble liquids at SNOLAB

Abstract: The Standard Model of Particle Physics, which so successfully predicts interactions of elementary particles down to the smallest scales observed, is known to be an incomplete theory. In this talk, two types of searches for physics beyond the Standard Model will be discussed, both with noble liquids as the detection medium. First, I will present the latest results from experiments looking for dark matter interactions with liquid argon targets: the DEAP-3600 experiment located at SNOLAB, and plans toward the next-generation experiments DarkSide-20k and ARGO. Then, I will talk about the nEXO experiment, also planned to be located at SNOLAB, that will look for neutrinoless double beta decay in liquid xenon to determine whether neutrinos could be their own antiparticles. Finally, I will show developments in single-photon detection technology enabling nEXO and ARGO, with potential applications outside the field.



## HQP desks

- From Mark:
- Can you update the list of HQP desks and indicate anyone that needs a desk assignment by making their name entry red? The spreadsheet is at:
- [https://triumfoffice365-my.sharepoint.com/:x:/g/personal/mhartz\\_triumf\\_ca/ET45ATRObqhElydg5cTK8KsBYn3KltAJcsY-LXEmgp15jA?e=m5bZAM](https://triumfoffice365-my.sharepoint.com/:x:/g/personal/mhartz_triumf_ca/ET45ATRObqhElydg5cTK8KsBYn3KltAJcsY-LXEmgp15jA?e=m5bZAM)



## Committee Updates

- IPP Council / CAP
- Science Council
- Space
- Seminar/Colloquia
- SciTech seminars/Quantum Forum/Dark Matter Forum
- Mixer
- Science Week
- TUEC
- Safety
- Summer schools
- EDI committee
- IYBSSD – Earth Humanity Coalition



**AOB**



## Next Meeting

- April 11<sup>th</sup>