

# Particle Physics Faculty Meeting

- Agenda
  - News/Updates
  - Research groups updates

## TRIUMF Return to Site

- Director had formed two sub committees
  - 1) Anne Louise Aboud: with focus on practical aspects of bringing people back onto campus
  - 2) Reiner Kruecken: with research focus
- These two are now merged with the overall Covid-19 task force into a single task force
- Focus on Phase 3 with ~300 people on site
- Mandate being formulated
- Raised question on out of province visitor:
  - Reiner: Until we have the right policies and procedures in place, we should hold off on these visitors. Once we got that in place, it can happen.

## Particle Physics Return to Site

- Our quotas have been steadily increasing
- Currently averaging about 7-8 people on site
  
- If you would like to come to TRIUMF, enter your slot (AM/PM) for the following week
- At this point, can have faculty, postdocs and students for half day/day if found useful
  
- Be sure you have taken the “back to site training”
- Link to planning page per week
  - [https://triumfoffice365-my.sharepoint.com/:x/g/person/amcgowan\\_triumf\\_ca/EW7BfKwBkGZlgsc2NDdd9sEBCDTiVid26ePvTUJeVC3xMQ?e=rhuKr3&wdLOR=c4F16CD38-2115-3743-A577-397E3B50E51C](https://triumfoffice365-my.sharepoint.com/:x/g/person/amcgowan_triumf_ca/EW7BfKwBkGZlgsc2NDdd9sEBCDTiVid26ePvTUJeVC3xMQ?e=rhuKr3&wdLOR=c4F16CD38-2115-3743-A577-397E3B50E51C)
  
- If you need to modify an entry or have last minute request during the week, please let me know

## ISAC Hire

- 6 candidates
- Good and diverse set of candidates
- John Behr:
  - Search committee made decisions today
  - Chair and committee will meet with Jens tomorrow to convey results

| Skyler Degenkolb |                       |                  |
|------------------|-----------------------|------------------|
| Monday 8th June  |                       | Tuesday 9th June |
| 9:00             |                       | 9:00             |
| 9:15             |                       | 9:15             |
| 9:30             |                       | 9:30             |
| 9:45             |                       | 9:45             |
| 10:00            |                       | 10:00            |
| 10:15            |                       | 10:15            |
| 10:30            | Colloquium            | 10:30            |
| 10:45            |                       | 10:45            |
| 11:00            |                       | 11:00            |
| 11:15            |                       | 11:15            |
| 11:30            | Research Plan (to lab | 11:30            |
| 11:45            | Scientists)           | 11:45            |
| 12:00            |                       | 12:00            |
| 12:15            |                       | 12:15            |
| 12:30            | Jon Bagger            | 12:30            |
| 12:45            | Jon Bagger            | 12:45            |
| 13:00            | GAPS?                 | 13:00            |
| 13:15            | GAPS?                 | 13:15            |
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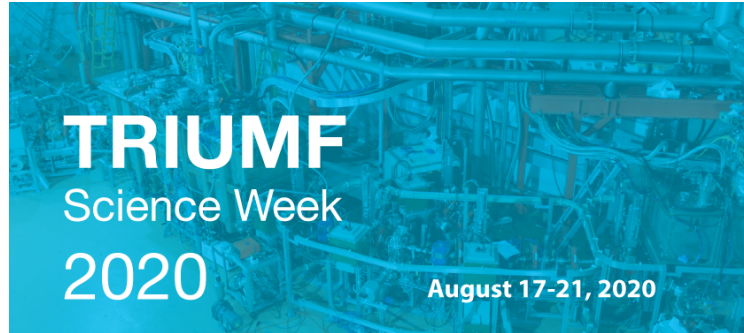
## ALPHA Hire

- Makoto prepared diversity report for Jens
- Sent latest “justification for early hire” to Jens
- Jens making case for hire this year to leadership team next Wednesday July 15<sup>th</sup>
- Raised the question about TRIUMF wide policy/allocation for “spousal hire”, Jens acknowledges this and says he has been asking for this in the past

## BCIT students

- TRIUMF is engaging with BCIT **computing students in projects for 400 hours** (fully remote)
- BCIT's [Industry Sponsored Student Projects \(ISSP\)](#) program
- Ideal Projects:
  - **DevOps and Networking** - automate key areas of your development workflow (CI/CD pipelines, build processes, scripting, etc.) and build your cloud infrastructure; or let our students help scale existing (legacy) software, migrate to cloud, and introduce proper development processes
  - **Website Development** - conduct a needs analysis to determine which platform is most suitable; create a design proposal including mock-ups, budget, and timeline; and finally, build a fully-functioning website, using the latest JS frameworks
  - **Mobile Application Development** - select the best technologies (React, native iOS or Android) for creating an application or feature (i.e., a real-time chat function)
  - **Machine Learning and Algorithms** - create a recommendation engine; spot trends in existing data; identify anomalies in data sets
- If you have a project along the lines described, please send your proposal directly to Reiner **by July 10<sup>th</sup>** he will coordinate which projects to put forward for this first round

# Science Week



- Online, via Zoom
  - <https://meetings.triumf.ca/indico/event/116/timetable/#20200817>
  
- The program is organized with the following key program elements:
  - Monday: Current TRIUMF science program in Five-Year Plan 2020-25
  - Tuesday: Science drivers + international planning exercises
  - Wednesday: Topical talks
  - Thursday: Topical talks + Topical parallel sessions
  - Friday: New potential initiatives + Reports from parallel sessions + TUG AGM

|       |  |  |  |   |  |
|-------|--|--|--|---|--|
| 13:00 | <b>Parallel - Particle Physics</b><br>David McKeen, ...<br><br>Online only, TRIUMF             | <b>Parallel - Nuclear Physics</b><br>Dr. Barry David...<br><br>Online only, TRIUMF | <b>Parallel - Life Sciences</b><br>Dr. Monika Stachura, ...<br><br>Online only, TRIUMF   | <b>Parallel - Cyclotrons</b><br>Thomas Pl...<br><br>Online only, TRIUMF | <b>Parallel - Molecular and Materials Science</b><br>Dr. Iain ...<br><br>Online only, TRIUMF |
|       | <b>Break</b><br>Online only, TRIUMF <span style="float: right;">13:30 - 13:45</span>           |  |  |   |  |
| 14:00 | <b>Parallel - Detectors</b><br>Dr. Fabrice Retiere...<br><br>Online only, TRIUMF 13:45 - 14:45 | <b>Parallel - Particle Beams</b><br><br>Online only, TRIUMF 13:45 - 14:45          | <b>Parallel - Machine Learning &amp; Quantum Computing</b><br>Dr. Wojciech Fedorko...<br><br>Online only, TRIUMF 13:45 - 14:45 |   |  |

2020-07-09

## IPP Townhall Meeting

- The sessions will be:
  - Wed. July 15 11:30-13:30ET and 14:30-16:30ET
  - Thur. July 16 11:30-13:30ET and 14:30-16:30ET
  - Tues. July 21 11:30-13:20ET and 14:20-16:30ET
  
- Don't forget to register
  
- Who is presenting?



## ACOT

- NRC has informed that the **ACOT (Advisory Committee on TRIUMF) meeting this fall, November 19 – 21, will be a virtual meeting**
- Given the various time zones for the committee that need to be taken into consideration, the timing of sessions could differ to that used for in-person meetings
- For example, sessions might begin earlier on Thursday. Some Parallel sessions might be spread out to accommodate the time zones for the ACOT subject matter experts (vs. all sessions running in parallel).

## Otto Haeusser Fellow

- As many of you know, Pietro Giampa has been offered a SNOLAB scientist position
- Congratulations!
  
- The DM Forum is a great success
  - Should we encourage him to continue the DM Forum even when moving to SNOLAB?
  - Would provide a nice link to our colleagues at SNOLAB



## Slides from SMM

2020-07-09

## Hyper-K

- Construction of the entrance yard for Hyper-K is proceed
- First pictures:



# Particle Physics Update: P407 Gate Review

P407 UCN

Special Gate 2 and 3 Presentation for MSR

Special Review to facilitate Call for Tender and Procurement:

Committee:

J. Dilling, Chair

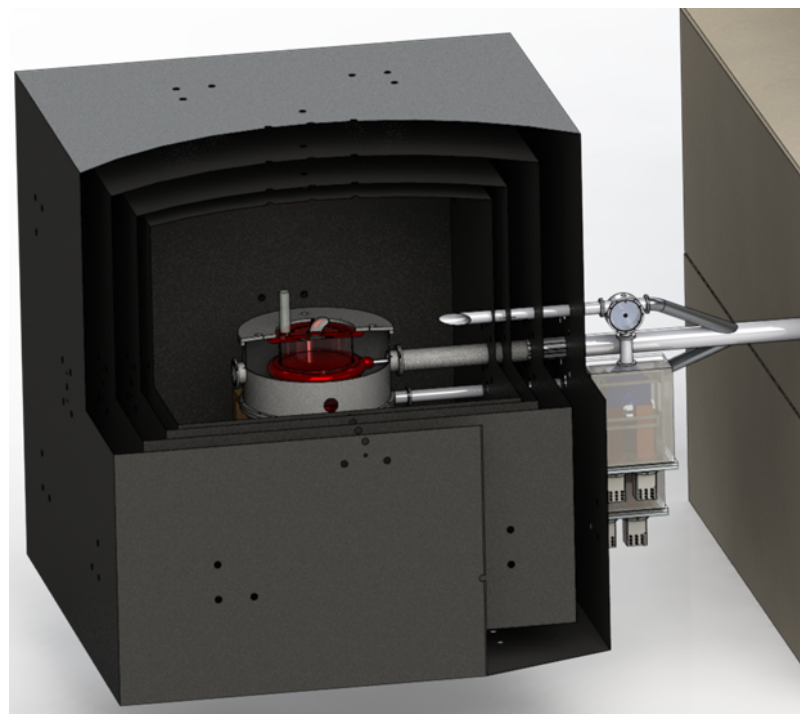
J. Behr

B. Davids

F. Retiere

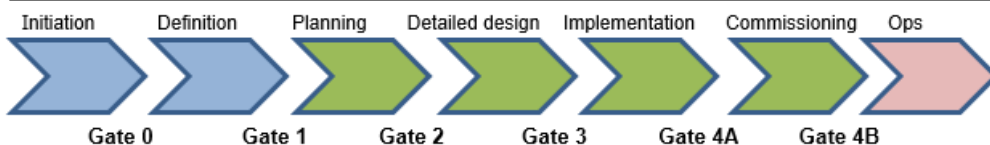
A. Gottberg

B. H. Hui



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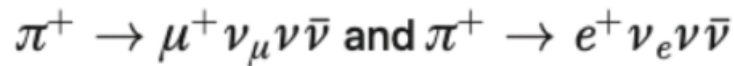
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|  <b>TRIUMF</b> | <b>Gate 2/3 Review Report for<br/>P0407</b> | <b>Document-#####</b> |
|---|---|-----------------------|



|                       |  |
|-----------------------|--|
| <b>Project Title:</b> | Special Gate 2/3 Review for P0407 – Magnetically Shielded Room |
|-----------------------|--|

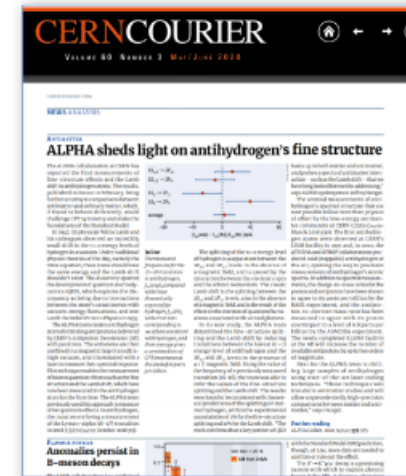
## Particle Physics

- **ALPHA's** Canadian-led recent results on the Lamb shift measurement appeared in CERN Courier magazine
- **PIENU** rare decays search accepted for publication in PRD



First search

Improve limit by  
order of magnitude



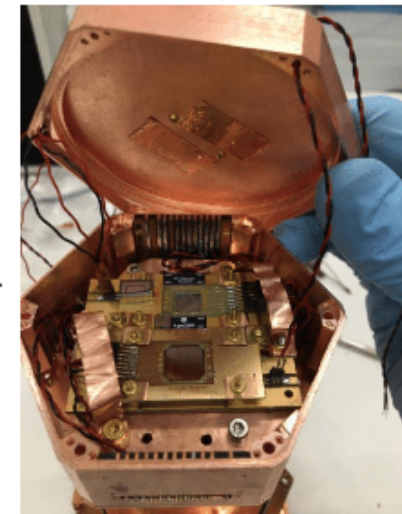
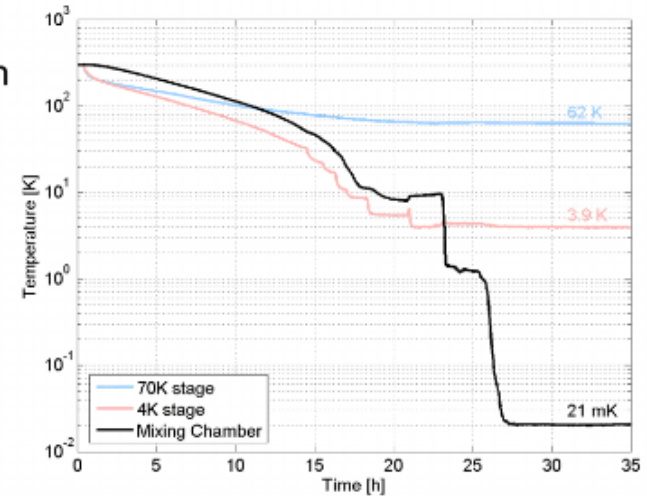
- PPD research groups have started face-to-face meetings with students/postdocs outside of TRIUMF while following social distancing guidelines
- PPD faculty met for face-to-face meeting at Jericho Beach (while following social distancing guidelines)
  - Attendance: 14



## Particle Physics

- **SuperCDMS:**
- Dilution refrigerator is assembled and doing first test run
- Made possible by return to on-site work
- Reached 20 mK in just over 1 day
- Preparing to operate with detector installed
- Preparations to restart CUTE facility at SNOLAB ongoing with aim to cool down in early August

Cool-down curve



Detector for Installation

## Round Table

- ATLAS
- T2K/HyperK
- UCN
- ALPHA
- SuperCDMS
- Pienu
- NA62
- DEAP
- SNO+
- EXO
- HALO
- g-2
- Belle 2
- Theory



## Committee Updates

- IPP/MISnomass/Snowmass
- New Initiative Planning
- Seminar/Colloquia
- Safety
- Space
- 5S
- Academic
- Summer schools
- Health & Wellness
- Data Science
- Diversity committee
- Physical Sciences Division Structure
- PPR Working Group



## Next Meeting

- August 13<sup>th</sup>

2020-07-09