

Particle Physics Faculty Meeting

- Agenda
 - News 10'
 - Updates from Committees and Groups
 - AOB

TRIUMF Physical Sciences

- Preparation for upcoming ISAC strategy workshop/Accel Div. Nov 8th 2019
- Preparing a strategic retreat on Quantum Technologies Nov 28th 2019
- MT 26 conference Sept 22-27 2019, went well,
 - hosted tour of TRIUMF on Friday (100 people)
- Move from Trailer FF to MOB ongoing, very positive feedback so far;
 - next steps are being planned
- CFI and NSERC proposal deadlines



MT 26

International Conference on Magnet Technology

Vancouver, Canada | 2019



September 22-27, 2019
Hyatt Regency Hotel
Downtown Vancouver

**Advance Registration Deadline:
September 13, 2019**

MT26.triumf.ca

- Accepted contributions 980: 22 plenaries, special sessions, 173 parallel orals, 785 posters
- 773 unique presenters out of the 980 abstracts
- 670 registrations, so far
- 28 international exhibitors
- Social events: Welcome Reception (Sun), Exhibitors Reception (Mon), Banquet (Wed, at the Fairmont across the street)
- Friday afternoon: TRIUMF tour (two buses, fully booked) 100 people
- IEEE is financial underwriter (budget break even point at 800 attendees)
- TRIUMF people helping: Jana Thomson, Dana Giasson, Diana Castaneda, Francis Pau, Ruediger Picker – for tour: Jesse Abney plus tour guides
- Labour dispute at 5 Vancouver hotels including the Hyatt:
 - Talks about safer working conditions, livable wages, and stable jobs have been going on for months
 - The union has voted to start the strike on Thursday, we don't know the extent, yet
 - Emergency meetings with organizers about this are happening on Tuesday
 - IEEE is informed and contracts include force majeure clause

Hosted by



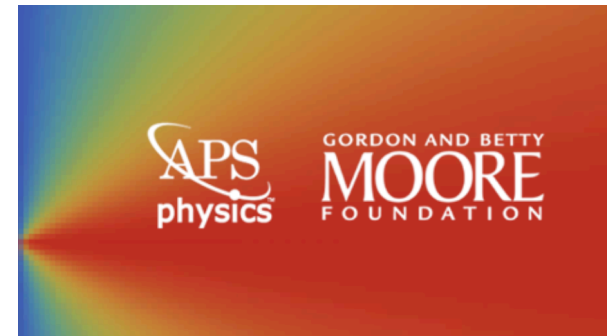
ATLAS

- Max Swiatlowski - Started October 1st (at CERN until fall next year)
- Visits week of October 21st



Physical Sciences

- **New Initiative on Future Directions in Fundamental Physics**
- Planning to have a series of workshops over the next years surveying the landscape of new ways to test fundamental physics at TRIUMF
- A working group/local organizing committee has been setup locally with **David McKeen** as chair
- Submitted an application for workshop funding to the Moore Foundation “Convening Awards” together with Dave Hertzog
- Awarded US\$50K
- Save the date: April 26-28 2020 in Whistler



European Strategy

Council Secretariat:

The Briefing Book for the 2020 European Strategy Particle Physics Update is now available on the CERN document server: <http://cds.cern.ch/record/2691414>.

This report, which presents compact summaries of the inputs submitted to the Strategy update and of the debates that took place during the Open Symposium in Granada, was compiled by the Physics Preparatory Group with the help of many expert contributors. It is the result of many months of dedicated work of the community and of the Physics Preparatory Group, which all deserve very special acknowledgements.

Halina Abramowicz
On behalf of the Strategy Secretariat



Dave Axen



On September 12th with heavy hearts we announced the **passing of our dear friend and colleague, David Axen**. David's family has informed us that they will be holding a **reception to celebrate his life on Saturday, October 19th from 2:00-4:00 in the afternoon at the University Golf Club (5185 University Boulevard)**. All are welcome to attend. This will be an informal gathering of family and friends, but David's family would like for some people who knew him to say a few words. If you would like to share a few words about David, please contact me via email.

David joined UBC in the late 1960s and had a distinguished career within TRIUMF, rising to the position of Associate Director. Having retired in 2004, David remained a very active member of the TRIUMF community as Professor Emeritus and TRIUMF Affiliated Scientist. Most recently, he was heavily engaged with the ATLAS experiment at CERN.

Even as an emeritus, David worked at TRIUMF on a daily basis, interacting and engaging with students, postdocs, and researchers with whom he shared his knowledge and love for science. He will be greatly missed. Dr. Jens Dilling

2019-10-03

From PSD Mixer / All Hands

Budget:

TRIUMF 5 YP budget:

- ⌘ \$292M approved for 2020-2025.
- ⌘ this will allow for a strong 'constant effort' operation
- ⌘ leadership retreat in May to look at implementation plan

⌘ first retreat happened, and we are developing plans for implementation: hiring strategies, and capital investments. Also: we are looking at operational impact (ISAC, cyclotron, etc).

- ⌘ Next retreat on Sept 13th

Great news!

2014: \$222 M

2019: \$293 M

Secures our Future

Increase: +32%

- One year early
- Consolidates recent gains
- But...

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- ⚙ Next retreat on ~~Sept 13th~~ Oct 18th

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PS DIVISION		current staff					Additional total - 2025	add Now	Comment - long term	Today (May 2019)
Department	Group	Tech	P&S	BAE	Uni	PDF				
ALD Office	ALD Office	1	0	1	0	0	0	0		
Nuclear Physics		2	3	8	2	1		1	one BAE to support the fundamental symmetry program	
								0	2 P&S scientist, who will be 80% matrixed into ARIEL project	
								0.5	50% joint faculty with University (fun sym, qu-sensing)	
							1		one new tech for NP program at ARIEL	
Particle Physics		1	7	12	9	2				
							1		one extra scientist for UCN in next 5YP	
								1	4 BAE succession position in neutrino (2), ALPHA, and ATLAS	
								1	TIER 1 succession hire	
								1	new initiative in particle (quantum sensing) in addition to ALPHA/interferometry	
								2	succession T. Brunner, R. Gornea, D. Muecher, R. Mammei	
NEW Initiative		0	2	0	0	1				
lab wide								0	2 P&S Data Science Initiative	
								1	1 P&S or BAE Data Science Initiative	
Sci Tech		5	16	3	0	0		1	one extra P&S/BAE scientist for detector development	
								1	two succession P&S (eng/physics)	
								1	succession DAQ S. Daviel	
								1	Simulation expert P&S	
Theory		0	0	5	0	5		0.5	joint position with university particle theory	
								1	succession plan nuclear theory	
								0.5	used leave of S. Bacca to hire R. Taylor PDF (with UW)	
							1		extra theory BAE in the field of AI, machine learning, QC	
CMMS		2	4	4	1					
								0	two BAEs (one with QMI as succession for S. Kreitzman, one position needed in 2025)	
								2	P&S for BetaNMR/ MuSR plus an extra tech to support BetaNMR- matrixed 80% ARIEL	
								1	succession P. Percival	
								1	extra support for CMMS, leadership	
Totals	Totals	11	32	33	12	9	4	16.5		

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Nuclear Physics		2	3	8	2	1				
								1	one BAE to support the fundamental symmetry program	request for hire pending
								0	2 P&S scientist, who will be 80% matrixed into ARIEL project	done
								0.5	50% joint faculty with University (fun sym, qu-sensing)	TBD
							0		one new tech for NP program at ARIEL	new
Particle Physics		1	7	12	9	2				
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								1	4 BAE succession position in neutrino (2), ALPHA, and ATLAS	3 hired, ALPHA waiting, post doc
								1	TIER 1 succession hire	expected in Spet 2019
								1	new initiative in particle (quantum sensing) in addition to ALPHA/interferometry	after 2020
									succession T. Brunner, R. Gornea, D. Muecher, R. Mammei	plan in place
NEW Initiative				0	0					new
lab wide								0	2 P&S Data Science Initiative	
								0	1 P&S or BAE Data Science Initiative	
Sci Tech		5	16	3	0	0	1		one extra P&S/BAE scientist for detector development	new
								1	two succession P&S (eng/physics)	R. Henderson waiting
								1	succession DAQ S. Daviel	plan in place
								1	Simulation expert P&S	request for hire pending
Theory		0	0	5	0	5		0.5	joint position with university particle theory	TBD
								1	succession plan nuclear theory	plan in place
								0.5	used leave of S. Bacca to hire R. Taylor PDF (with UW)	plan in place for 4 years after start
							1		extra theory BAE in the field of AI, machine learning, QC	new
CMMS		2	4	4	1					
								0	two BAEs (one with QMI as succession for S. Kreitzman, one position needed in 2025)	done
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								0.5	succession P. Percival	TBD
								1	extra support for CMMS, leadership	Department Head / Director of CMMS
								0	succession T. Brunner, R. Gornea, D. Muecher, R. Mammei	
Totals	Totals	11	30	33	12	8	3	13		

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								0	succession T. Brunner, R. Gornea, D. Muecher, R. Mammei		
NEW Initiative				0	0					new	
lab wide								0	2 P&S Data Science Initiative		
								0	1 P&S or BAE Data Science Initiative	gone	
Sci Tech		5	16	3	0	0		0	one extra P&S/BAE scientist for detector development	new	
								0.5	two succession P&S (eng/physics)	R. Henderson waiting, converted to tech	
								1	succession DAQ S. Daviel	plan in place	
								0	Simulation expert P&S	request for hire pending	
Theory		0	0	5	0	5		0	joint position with university particle theory	gone	
								1	succession plan nuclear theory	plan in place	
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								0	two BAES (one with QMI as succession for S. Kreitzman, one position needed in 2025)	done	
								2	P&S for BetaNMR/ MuSR plus an extra tech to support BetaNMR- matrixed 80% ARIEL	plan in place for 2 P&S	
								0	succession P. Percival	TBD	
								0	extra support for CMMS, leadership	Department Head / Director of CMMS	
Totals	Totals	11	30	33	12	8	0	8			

Particle Physics Hiring Plan

- Immediate hires:
 - ALPHA BAE (*request for hire submitted by PP Dept*)
 - UCN P&S (*request for hire submitted by PP Dept*)
 - UCN PD 30% (to be matched by 70% CFI funds)

- Next 5 year plan
 - 2 BAE's for New Initiative

- Suggestions for “joint university hires” (but needs university commitment)
 - UCN
 - Dark Matter
 - HyperK
 - Future Collider Experiment

- Written summary from end of July available here – submitted to Jens at the end of July
- https://triumfoffice365.sharepoint.com/:w:/s/ParticlePhysicsDepartment/EZ3X_vJGHUFFja-t4aUrXtwBgd2_8vzRL6Dp8IXsdrY9_A?e=AJ96g2

Next Meetings

- November 7th 12:30 in the theory room
- ACOT: Nov 14-16 (Thanks to Mark for organizing)

Committee Updates

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

Project News

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