Particle Physics Advisory Panel Report Town Meeting 2019

Roger Jones, Lancaster on behalf of the PPAP

9th March 2019

Outline

- Introduction
- PPAP membership
- Recent activities
- Near future

Primary activities

Activity occurs in bursts otherwise we meet every few months

- Interact with community Repor Annual community meeting Information exchange with Pis Encourage community to notify us of new initiatives Respond to request for information from STFC Respond to calls for thout from government Keep Particle
 - We do not prioritize or tension

PPAP

Five most relevant science advisory panels

- Particle Physics Advisory Panel
- Nuclear Physics Advisory Panel
- Particle Astrophysics Advisory Panel
- Astronomy Advisory Panel
- Solar System Advisory Panel

Plus there are others like the Computing Advisory Panel

"The purpose of the Advisory Panel is to provide a link between Science Board and the community, and represent the needs of the community to STFC."

http://www.stfc.ac.uk/about-us/how-we-are-governed/advisory-boards-panelscommittees/particle-physics-advisory-panel/

Membership

Attempts expertise across all PP areas.

Silvia Pascoli (IPPP) Veronique Boisvert (RHUL) Jo Cole (Brunel) Roger Jones (Lancaster) *Chair* Matthew Malek (Sheffield) Matthew Needham (Edinburgh) Pawel Majewski (RAL) Peter Ratoff (Cockcroft)

Some rotation each year. Consider volunteering for this role.

Thanks to outgoing members and particularly to Claire Shepherd-Themistocleous who stepped down as chair at the end of 2018 after serving on the panel since 2012

Recent Activities

- Unusually, two community meetings in 2018, driven by the European Strategy Refresh, Evaluation and Roadmap update
 - □ 2 days July 2018 @ RAL
 - 2 days Sept 2018 @ Birmingham
- Also put together the response to the 'Big Ideas' call from Mark Thomson
- Comment on the astroparticle programme evaluation input document
- Report to SB good engagement, though we would appreciate more feedback on documents we prepare
- PP Programme Evaluation Panel
- PP Roadmap Update

Ongoing Activities

- Continued Engagement with European Strategy Review
- Further Input to the Particle Physics Programme Evaluation Panel as required
- Update to Science Board in late 2019
- Further input to the UKRI Infrastructure Roadmap
- Annual Community Meeting
 - Dates to be confirmed
 - Given the meeting in July, we suggest September is the right time

Community Meeting – July 2018, Scene Setting

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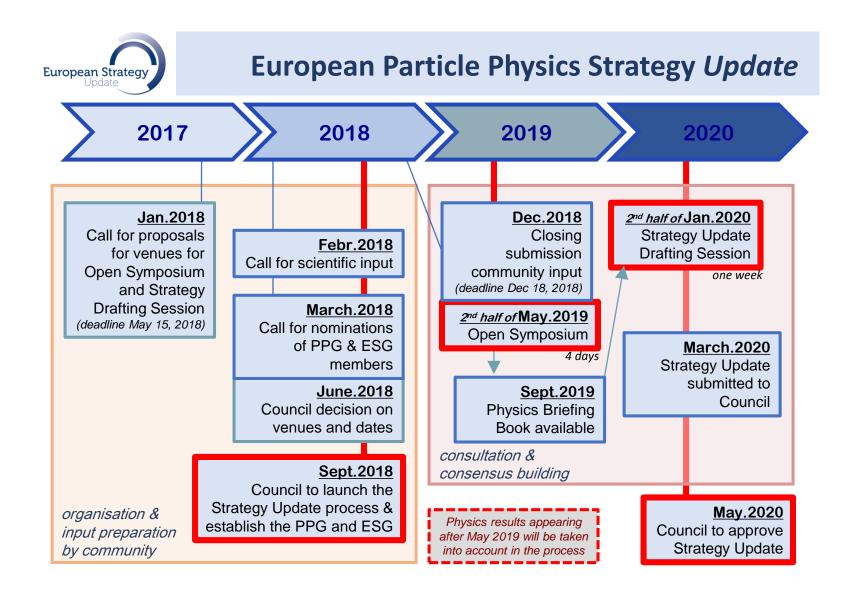
9th April 2019

Community Meeting – Sept 2018, drilling down

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	13:45	Overview of Linear Colliders - Prof. Phil Burrows (Oxford) (Physics West Lecture Theatre (W117))	Q.					
	14:30	Discussion (Physics West Lecture Theatre (W117))	2.					
	17:30	Summary of discussion (Physics West Lecture Theatre (W117))	2-					
PM				12:30	Lunch			
				13:30	Flavour and non-accelerator (until 17:30) (Physics West Lecture Theatre (W117))	Q.		
				13:30	Neutrino discussion (Physics West Lecture Theatre (W117))	Q		
				14:30	Dark Matter discussion (Physics West Lecture Theatre (W117))	2.		
				15:30	Input to European Strategy for Particle Physics _Dark Matterpdf Tea	₩_ *		
					Non-accelerator general discussion (Physics West Lecture Theatre (W117))			
				16:30	Detector R&D (Physics West Lecture Theatre (W117))	Q.		
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European Particle Physics Strategy Update

- Aims to do 'that it says on the tin'.
- Two major European events:
 - "Open Symposium" May 2019
 - Physics Preparatory Group (PPG) produce "Briefing Book"
 - Given to Physics Preparatory Group (PPG)
 - "Strategy Drafting Session". January 2020
 - In the UK, there is the <u>UK PP COMMUNITY MEETING: FROM OPEN</u> <u>SYMPOSIUM TO DRAFTING SESSION</u> 1 July 2019, IoP, 37 Caledonian Rd
- Written inputs were submitted in December 2018.





Composition of the PPG

Physics Preparatory Group (PPG) composition, adopted by Council, December 2013:

- The Strategy Secretary (acting as Chairperson),
- four members appointed by the Council on the recommendation of the SPC,
- four members appointed by the Council on the recommendation of ECFA,
- the SPC Chairperson,
- the ECFA Chairperson,
- the Chairperson of the European Laboratory Directors' meeting,
- one representative appointed by CERN,
- one representative from Asia appointed by the respective regional representatives in ICFA,
- one representative from the Americas appointed by the respective regional representatives in ICFA.

Responsible with organising the Open Symposium and to deliver to the European Strategy Group (ESG) a Physics Briefing book.

Roadmap Update

- PPAP formulates update to Roadmap.
 - Input from:
 - The two community meetings
 - Responses to drafts (including the strategy drafts) to the community
 - Exchanges with projects
 - Thanks for the feedback, even after the deadline ;-)
- Reminder: the PPAP maps, it does not prioritize.
- Reminder: this is a roadmap, not an OS map.
 - The discussion of each project is brief and forward-looking. It is not the occasion to give chapter and verse on projects and their history
 - Much of the final edit is rebalancing the level and style of the sections

Particle Physics Programme Evaluation

Purpose:

"Look at the portfolio and science strategy to define a balanced programme of excellent science within a realistic financial planning envelope for each scientific discipline."

- Particle Physics Evaluation due to begin in Autumn 2018.
 - "Process duration approx. 6 months"
- PPAP update the Roadmap supports this process
- Document as input 3 January 2019
- Projects (e.g. ATLAS, CMS...) also provided written input
- Presentation and attendance 29 January 2019
- Further attendance possible

UKRI Infrastrcuture Roadmap

- Chairs of APs invited to consultation meeting at the IoP.
 - <u>https://www.stfc.ac.uk/research/science-challenges/</u>
- Discussion of community needs.
 - Meeting 29th January, *after* interim report had been signed-off by Minister
 - Inputs:
 - List of large infrastructure needs expanded from v short list in interim report
 - Computing and elnfrastructure concerns are cross-cutting
 - Alignment of EPSRC and STFC criteria for selection
- Process is expected to finalize the roadmap by the summer.

PPAP Concerns

- Comments and concerns
 - □ We are now broad (11 STFC funded programmes, up from 7)
 - Shows creativity and vigor
 - But can it all be sustained?
 - Core funding! Expanding programme by seizing opportunities will make the pressure on the core worse
 - Loss of senior research staff and RAs at universities and in PPD.
 - Increases concern over keeping skills pipeline filled as a consequences of losses.
 - □ At the risk of update fatigue.....
 - Consequences of the CG will have profound effects on the roadmap
 - Believe an update in ~1 year is appropriate

Future

- Community Meeting September (dates soon)
 - Please try to engage, and not just for 'your' day!
- Update to Roadmap (final circulation ~now)
- Continued engagement with European Strategy
- Reaction to output of the Particle Physics Programme Evaluation

Questions?



Composition of the ESG

European Strategy Group (ESG) composition, adopted by Council, December 2013:

- the Strategy Secretary (acting as Chairperson),
- one representative appointed by each CERN Member State,
- one representative for each of the Laboratories participating in the major European Laboratory Directors' meeting, including its Chairperson,
- the CERN Director-General,
- the SPC Chairperson,
- the ECFA Chairperson.

Invited:

- the President of the CERN Council,
- one representative from each of the Associate Member States,
- one representative from each Observer State,
- one representative from the European Commission,
- the Chairpersons of ApPEC, FALC, ESFRI and NuPECC,
- the members of the Physics Preparatory Group.

Responsible to deliver a draft Strategy Update to Council.

Key points in answers

- Programme broader than at last programmatic review.
 General feeling this is at right level now.
- Broadening has happened at cost to existing programme.
- Concern about what flat cash will mean for programme.

Exploit significant investments to the full, while keeping a stake in the future.