

Particle Physics Community Meeting

Introductory Remarks

25-26 June 2024

University of Birmingham

Particle Physics Advisory Panel



Membership and Charge

- Ruben Saakyan, UCL (Chair)
- Andrea Banfi, Sussex
- Tracey Berry, RHUL
- Andy Buckley, Glasgow
- Davide Costanzo, Sheffield
- Henning Flaecher, Bristol
- Marco Gersabeck, Manchester
- Elena Gramellini, Manchester
- Helen O’Keeffe, Lancaster
- Arttu Rajantie, Imperial
- Rebecca Seviour, Huddersfield
- Jessica Turner, Durham
- Sarah Williams, Cambridge

Provide a link between the Science Board and the Community and represent the needs of the Community to the STFC.

- Maintain an overview of activities within PP and future opportunities
- Develop and maintain science vision documented in "Landscape of UK PP" (latest is [Roadmap-2021](#))
- Consult and interact with PP community. Ensure its views are canvassed and effectively communicated to STFC.
- Advise Science Board on science and instrumentation strategy, skills development. **Provide input to long-range PPAN Roadmap.**
- Provide advice to Science Board on specific questions, e.g. Infrastructure Fund proposals.
- Liaise with other advisory panels, e.g. PAAP, NPAP.

PPAP Community Meetings

- Held annually, typically in summer/early autumn
- Take stock of where we are
- Discuss science strategy, instrumentation and skills that enable it.
- Recently, forward-looking agendas
- Capture community vision, communicate it to STFC



Context of
this meeting

PPAN Roadmap

European Strategy for
Particle Physics Update

STFC PPAN Roadmap

- During 2024 SB is developing a long-term prioritised PPAN Roadmap
- The key goals of PPAN Roadmap are:
 - Define a balanced programme of excellent science across PPAN research areas over a 10-year timeframe, within a realistic financial planning envelope
 - Balance physics exploitation, maintenance and operations, R&D, construction projects etc
 - Balance of small/medium/large projects
 - Support for studentships, fellowships and skills pipeline
 - Support for interdisciplinarity and cross cutting themes.
- Aim to complete the process by early 2025

PPAP Role

- Advisory Panels are asked to provide answers to “[PPAN Roadmap Questions](#)” (also, next slide) by 28 August 2024
- PPAP conducted a Community Survey to inform and help with the process

PPAN Roadmap Questions

- 1) Have there been any significant changes or developments that would cause the panel to alter the recommendations in their current roadmap?
- 2) Have there been any major scientific developments within the field since the roadmap was last updated that should affect STFC's consideration of future support of relevant UK research?
- 3) Where applicable, have there been any significant updates to relevant international roadmaps?
- 4) Have any significant new opportunities or risks emerged for the health of discipline that are not included in the current roadmap, or that need to be expanded upon in more detail?
- 5) Do any of the recommendations in the roadmap require a significant update or revision?
- 6) What do you consider to be your key skills gaps that need addressing?
- 7) Are there any trends across skills needs (for example, regional, career stage) that are notable within your particular area?
- 8) What do you anticipate will be the future skills needs?
- 9) What are the key strengths, weaknesses, opportunities and threats for your science area currently, and looking across the next 10 years

Structure of the meeting

- Forward-looking, high-level reviews of science areas and projects. Focus on future of the field and UK community plans/strategy
- Presentation and discussion of Community Survey results
- Discussion session on Wednesday afternoon structured around survey results, PPAN Roadmap Questions and process.
- Overview of plans and discussion on UK input to European Strategy for Particle Physics Update (ESPPU).

Goals of the meeting

- Collect and digest Community's view on near-, mid-, and long-term future of UK PP programme
- Obtain input from the Community to answer [9 PPAN Roadmap questions](#)
- Collect and summarise input on recent changes in STFC governance, advisory structures, Roadmap process.
- Inform and engage community with ESPPU.
- Following Community Meeting*,
 - PPAP will prepare answers and update summary of survey results – July
 - Will make answers and summaries available to community for comments – Jul-Aug
 - Submit final answers to SB PPAN by 28 Aug.

*(exact dates to be confirmed)