ECR Forum on Future Colliders

Report of Contributions

ECR Forum on F \cdots / Report of Contributions

Review of Physics Landscape

Contribution ID: 1

Type: not specified

Review of Physics Landscape

Monday 25 April 2022 11:05 (15 minutes)

Presenter: VESTERINEN, Mika Anton (University of Warwick (GB)) **Session Classification:** Physics Opportunities and Existing Anomalies ECR Forum on F \cdots / Report of Contributions

Discussion Session

Contribution ID: 2

Type: not specified

Discussion Session

Monday 25 April 2022 11:20 (40 minutes)

- We do not want to discuss the details of current physics results.
- Given a blank cheque and assuming appropriate technology, what would we build first?
- Do we agree with the priorities of the current / nominal road map (Euro Strategy Doc)?
- What future physics scenarios could we find ourselves in, in the next 5, 10, 20 years and what does this mean for the best approach to future colliders?
- What do we build if we see nothing BSM anywhere?

Session Classification: Physics Opportunities and Existing Anomalies

ECR Forum on F $\ \cdots \ /$ Report of Contributions

Accelerators Talk

Contribution ID: 3

Type: not specified

Accelerators Talk

Monday 25 April 2022 12:00 (15 minutes)

Presenter:NEVAY, Laurie (Royal Holloway University of London)Session Classification:Accelerator and Detector Technologies

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Accelerators Urgent Questions

Contribution ID: 4

Type: not specified

Accelerators Urgent Questions

Monday 25 April 2022 12:15 (5 minutes)

Session Classification: Accelerator and Detector Technologies

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Detectors Talk

Contribution ID: 5

Type: not specified

Detectors Talk

Monday 25 April 2022 12:20 (15 minutes)

Presenter: DOPKE, Jens (Science and Technology Facilities Council STFC (GB)) **Session Classification:** Accelerator and Detector Technologies ECR Forum on F \cdots / Report of Contributions

Detectors Urgent Questions

Contribution ID: 6

Type: not specified

Detectors Urgent Questions

Monday 25 April 2022 12:35 (5 minutes)

Session Classification: Accelerator and Detector Technologies

Lessons from the LHC and the Fu $\,\cdots\,$

Contribution ID: 7

Type: not specified

Lessons from the LHC and the Funding Landscape

Monday 25 April 2022 14:00 (15 minutes)

Presenter: PARKER, Andy (University of Cambridge (GB)) **Session Classification:** Facilitating a Future Collider

Funding landscape discussion

Contribution ID: 8

Type: not specified

Funding landscape discussion

Monday 25 April 2022 14:15 (45 minutes)

- How do we build a competitive funding model that does not directly take resources from other essential STFC activities?
- What are the differences in the field / funding landscape / CERN budget between the LHC development and now?
- How do we secure funding and ensure sufficient variety / diversity / importance that it is hard to cut in the future?
- What can be learnt from previous successes (e.g. LHC) and challenges (e.g. ILC)?
- How are collaborations built and is this model still suitable in the future?

Session Classification: Facilitating a Future Collider

Perspective from ECR working on …

Contribution ID: 9

Type: not specified

Perspective from ECR working on R&D

Monday 25 April 2022 15:00 (15 minutes)

Presenter: SAWYER, Craig (Science and Technology Facilities Council STFC (GB)) **Session Classification:** Opportunities and Challenges for ECRs

Career Prospects Discussion

Contribution ID: 10

Type: not specified

Career Prospects Discussion

Monday 25 April 2022 15:15 (45 minutes)

- How sustainable is it to do small fractions of time on future R&D?
- How risky is it to commit to a career in future R&D?
- What is the best strategy as a community (many people giving small fractions of time fewer people giving larger fractions) and as an individual (how do I get a permanent position)?
- How straightforward is it to start performing R&D / transition from data analysis?

Session Classification: Opportunities and Challenges for ECRs

Technologies Discussion

Contribution ID: 11

Type: not specified

Technologies Discussion

Monday 25 April 2022 12:40 (20 minutes)

- We do not want to discuss details of current technology issues.
- What collider options are there and what weighting do people give them in terms of importance - FCC (ee+eh+hh?), linear collider, muon collider - are there others?
- What technology advances are critical to achieve the scenarios agreed above? ECFA R&D Roadmap (https://cds.cern.ch/record/2784893).
- What particular R&D areas is the UK community best placed to make progress on (we cannot do everything)?
- What is the likelihood of technology advances being realised on an appropriate time scale?
- How much R&D both in terms of FTE and funding is required to achieve this?
- Are there other prohibiting factors aside from financial?

Session Classification: Accelerator and Detector Technologies