

# WG: Future Colliders

## ECR Workshop on the European Particle Physics Strategy

Leonhard Reichenbach,  
on behalf of the Future Colliders WG and the conveners:  
Armin Ilg,  
Axel Gallen,  
Emanuela Musumeci,  
Krzysztof Mękała,  
Ulrich Einhaus

# Status

- Had 2 well-attended meetings
- 19 and 14 participants
- 10 participants attended both meetings
- Very interesting discussions with many broad points of view!
- Also very lively continuations on Mattermost

# Motivation/Scope

- Provide input regarding the choice of a future collider
- Maybe even a concrete ranking of proposals?
- Certainly a list of criteria that need to be fulfilled
- Try to offer insights to the strategy group that only we ECRs can provide

# Issues we will address

- Conditions a project has to fulfill
- And a ranking of these conditions according to importance to ECRs
- Transparency of the decision process
- Involvement of ECRs in the decision process? -> Overlap with Career/Leadership WG
- *Insert your issue here*

# Issues we feel belong to a different WG

- ECRs in decision processes?
- Stable funding for smaller projects

# What we plan for the whitepaper

- Emphasise the importance of a future collider
- Emphasise the importance of a future collider **at CERN**
- Demand transparency in the decision process
- Results from a (carefully crafted) **survey**
  - Ranked list of criteria for future collider choice
  - Other questions: importance of international collaboration, project size etc.
  - Concrete questions on future collider proposals

# The Survey

- Timeline:
  - Start: very soon
  - End: early/mid January
- Criteria to be ranked by point allocation:
  - Sustainability: minimise environmental impact
  - Time to first physics collisions
  - Location\* (might have to specify that this is implied in Europe/CERN)
  - Public / Social acceptance (e.g. cost, land use)
  - Stable support for smaller projects
  - Open to world-wide collaborations
  - Technological innovation driver
  - Baseline physics programme (without upgrades)
  - Clear upgrade path

# Potential statements

**WIP** 



# Feedback?

Did we miss anything?

# Outlook /How to contribute

- Stay tuned for the survey coming soon
  - Or get on board if your WG also wants to take part!
- Join our [Mattermost channel](#) and join the meetings!
- Next meeting: Today 14:00 here (Salle Dirac)