

International
Muon Collider
Collaboration



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Muon Collider: Early Career Researcher

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Introduction

Definition

Early Career Researcher (ECR) – also known as Early Stage Researcher (ESR) – has not a clear definition. An ECR is generally considered as someone who is within eight years of the award of the PhD.

This week:

Wed night:
social evening in
Hamburg

Thu lunch:
ECR lunch in DESY
canteen

Today: this
summary talk

Social evening in Hamburg

- Remarkable attendance rate (beyond restaurant expectation)
- Fruitful discussions on muon collider, and general situations within the accelerator physicist, detector physicist, engineers, ...)



1.5 hours* later...



* $\gamma \gg 1$?



Social evening in Hamburg

- Remarkable attendance rate (be)
- Fruitful discussions on muon co... within the accelerator physicist, detector physicist, engineers, ...)



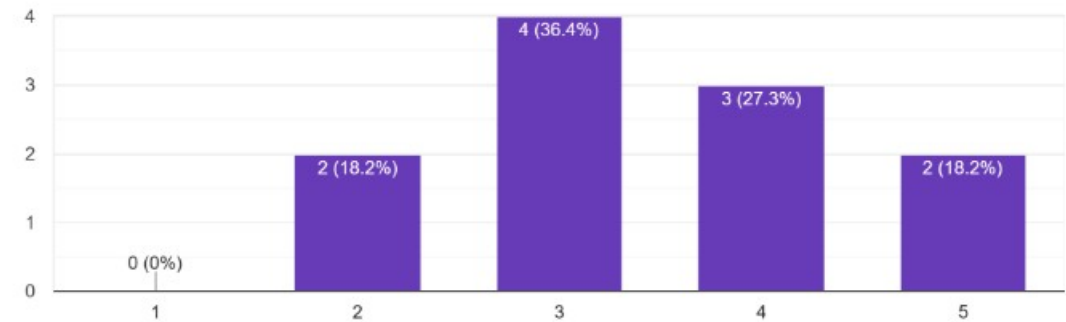
$*\gamma \gg 1?$



Survey results: demographics

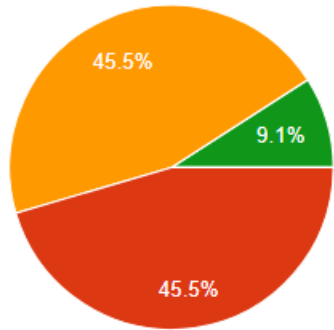
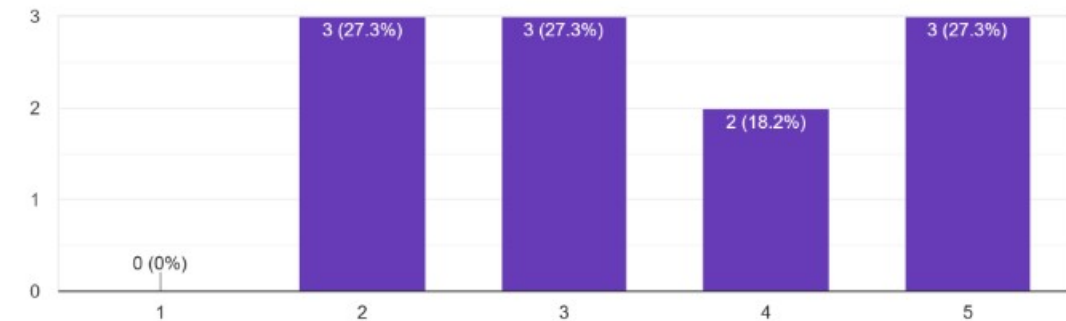
Do you feel that the muon collider collaborations support ECRs? (in terms of support, visibility, career progressions etc.)

11 responses

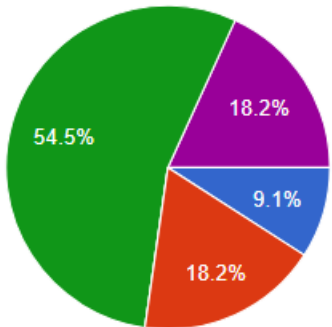


How satisfied are you about your work towards the muon collider?

11 responses



- MSc student
- PhD student
- Postdoctoral researcher
- Staff / academic tenure

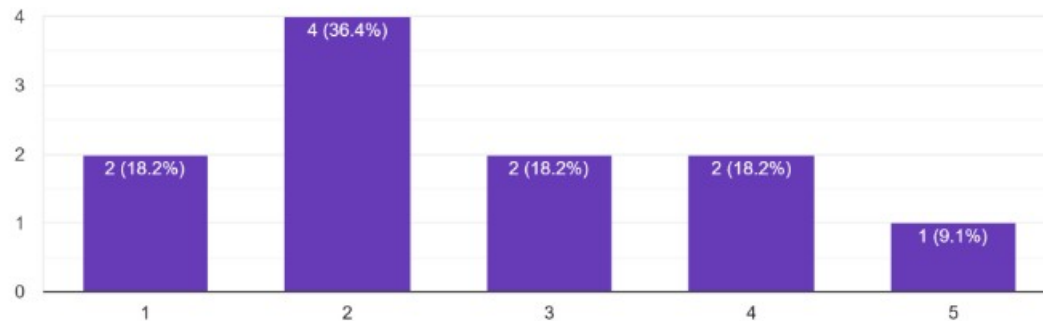


- Theory
- Experimental physics
- Detector design
- Accelerator physics
- Engineering

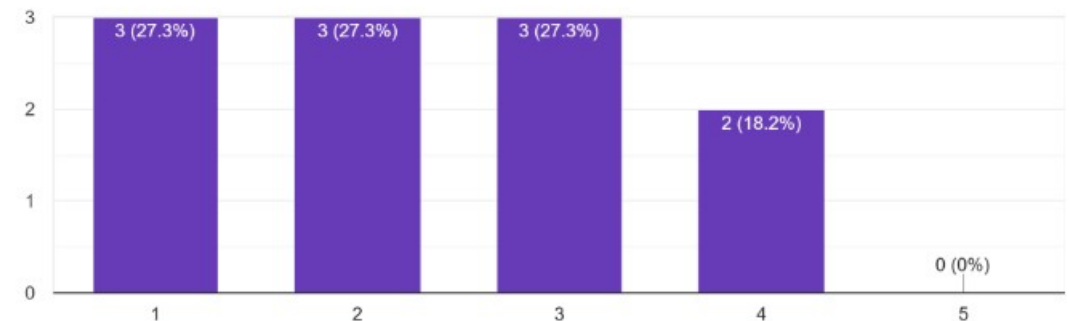
Survey results: some key points

- We like the muon collider cause it's challenging! But...
- Missing efforts & problems to be solved:
 - Difficult state of the HEP/accelerator job market, what jobs we could foresee in the next 5-10 years? How long MC studies will be last?
 - How to ensure collaboration between US and Europe? How to establish realistic targets for performance of the muon collider?

How optimistic are you feeling about your future career opportunities within the muon collider?
11 responses



How likely do you think it is that the muon collider will start to be built within your lifetime?
11 responses



Some general key points & questions

- Training & Skills
 - Need frequent, hands-on computing/technical training (not just overview talks)
 - Muon-specific equations require tailored instruction
- Staffing & Career Pipeline
 - Wide gap: many seniors vs. few mid-level technical leads
 - Risk of knowledge loss as retirees leave in ~10 yrs
 - No clear post-fellowship prospects; zero permanent muon-collider posts advertised
- Research Environment
 - What happens if supervisor is outside of the muon collider?
 - “Good people apply when good jobs exist” → importance of timely, transparent funding signals

Will I be able to continue to work on the muon collider in the next X years?

Thank you!

...questions?