Survey of the Career Prospects and Diversity in Physics WGs

Status update

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ECFA ECR Panel meeting 27.06.2023

Goals of the survey

Diversity in Physics programme:

- ☐ What are the issues that small collaborations face in comparison with the big collaborations?
- Which are the main differences between the career prospects of ECRs working in bigger and in smaller/new collaborations/experiments?
- ☐ How to increase interests in smaller and new experiments/collaborations in the ECR community?

Career prospects WG

- Assess current career situation of ECRs
- What can Career prospects WG provide to ECRs? → e.g ideas for events
- ☐ Are ECRs aware of career training opportunities?
- ☐ Are ECRs aware of what is needed to get grants (national funds or ERC)?
- What do ECRs *think* is needed for a successful career versus what is actually needed for a successful career?

Structure of the survey

- Personal data
- ☐ Field of work
- Collaboration and working group
- Diversity of Physics
- Career perspective and planning
- Work-life balance
- Leaving academia
- Recognition and visibility
- ☐ Final questions, feedback and remarks

Shorter version of the survey created and distributed to ECFA national contacts (idea: compare perception of seniors with answers of ECRs)

~ 100 questions in total!

Progress

- Survey implemented in Google Forms by members of the involved WGs and revised over last summer by the ECR panel
- Distributed last autumn via
 - ECFA national contacts
 - ATLAS, CMS, LHCb, ALICE, EIC, FCC, Compass+Amber, NA61/SHINE, NA62, Mu2e,
 - CERN
 - National mailing lists of the panel members (Belgium, Czech Republic, Netherlands, Switzerland)
- → Analysis of the main survey started last October
- □ Survey redistributed again in Czech Republic (February/March)
- □ Survey still open but no new answers since 3.03

760 answers collected

☐ Analysis of the shorter version for ECFA national contacts have not started yet

Analysis: current situation & strategy

Very limited manpower! Currently only 3 people involved, with limited relevant statistics knowledge

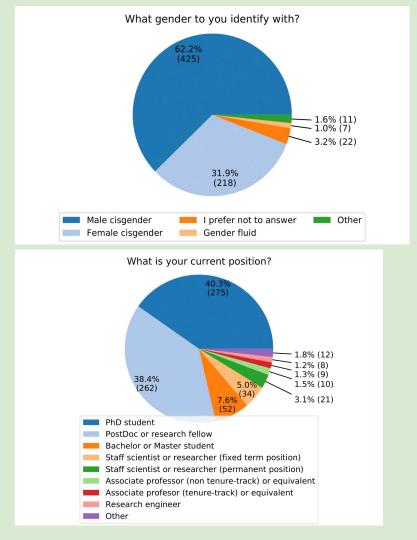
Minimal plan:

- 1.) Present answers directly to the asked questions, without looking at correlations between questions
- 2.) Focus on the aspects interesting for Career Prospects and Diversity in Physics WGs, look for correlations between different answers in the survey, i.e. career stage and work-life balance, collaboration size and job opportunities etc

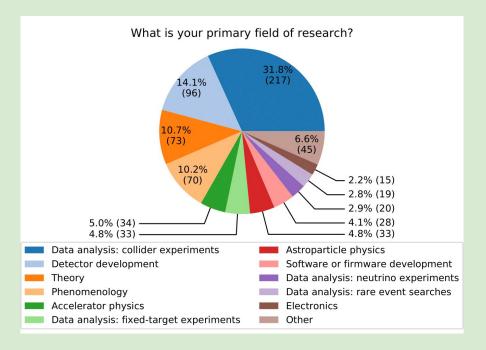
We use basic statistical tests to investigate differences/similarities in shapes, means, medians etc of the obtained distributions

More sophisticated analysis? Only if more (experienced) people join

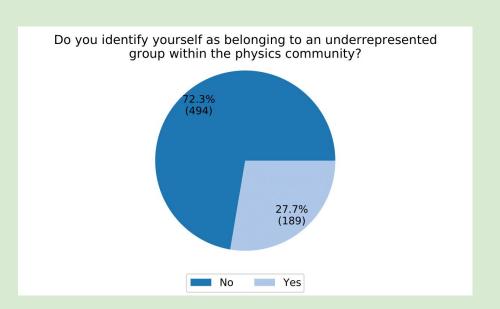
Examples of the results

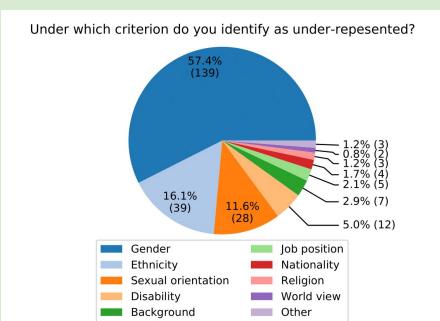


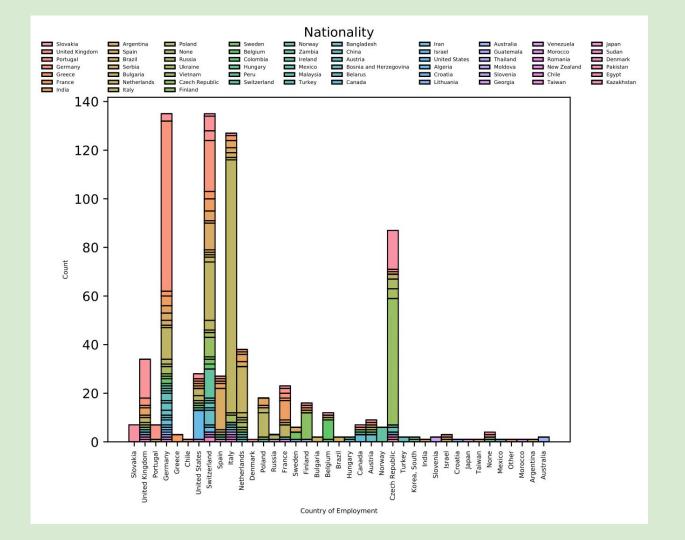
Participant profile



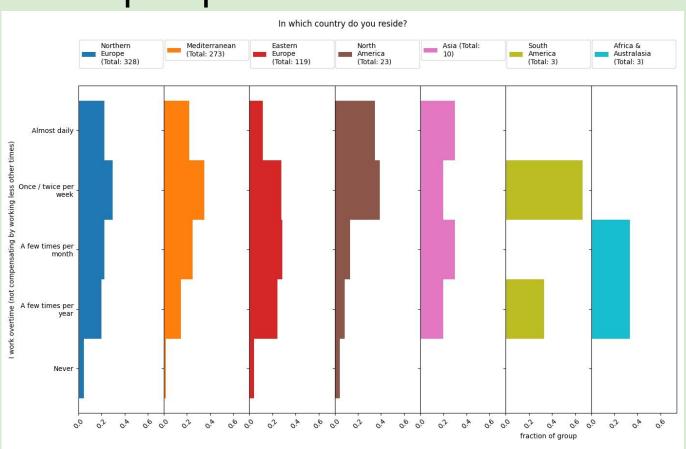
Participant profile



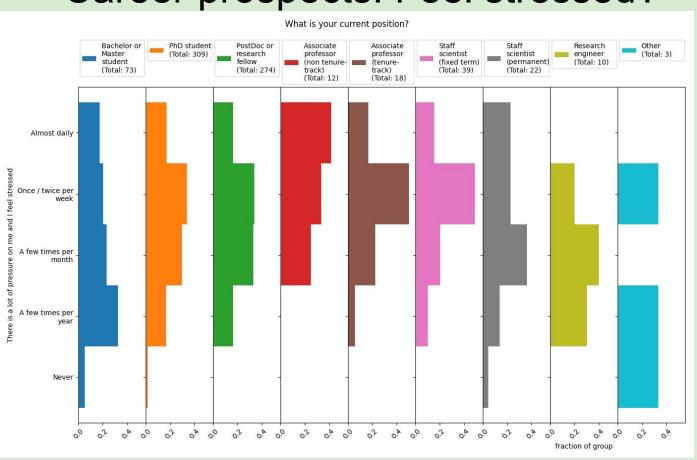


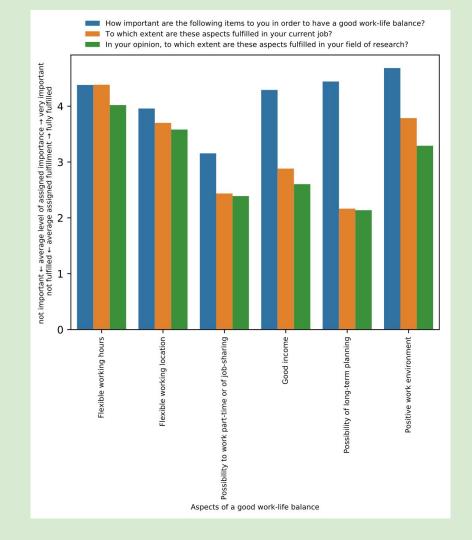


Career prospects: Work overtime much?



Career prospects: Feel stressed?

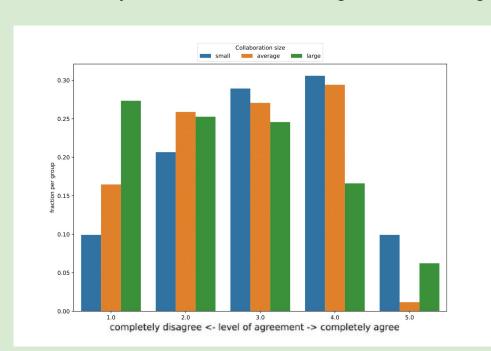


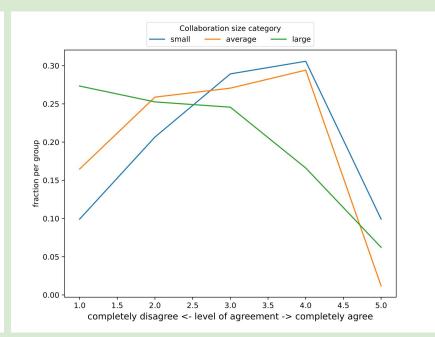


Diversity in the Physics Programme ("large vs. small collaborations")

Collaboration size: small = 2-50 people, average = 51-200 people, large = >200 people

My work in collaboration gives me enough visibility outside the collaboration.

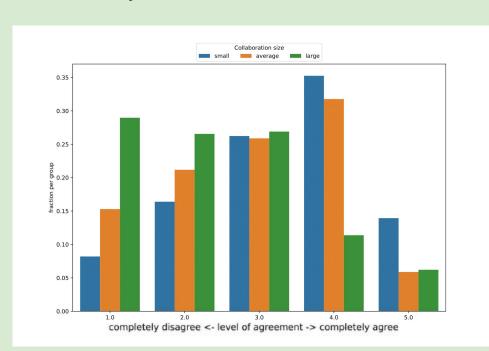


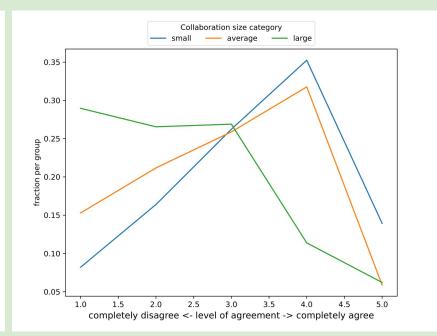


Diversity in the Physics Programme ("large vs. small collaborations")

Collaboration size: small = 2-50 people, average = 51-200 people, large = >200 people

My work in collaboration allows me to have an impact on decision-making.





Summary

- analysis ongoing
- more manpower needed, please join and help!
- ☐ Interested? Contact us via.

Mattermost

https://mattermost.web.cern.ch/ecfa-ecrs/channels/career-prospects--diversity-wg

- or email

ECFA ECR Career Prospects and Diversity in Physics WG Survey: ecfa-ecr-career@cern.ch

Thank you!