SOFIA UNIVERSITY St. Kliment ohridski





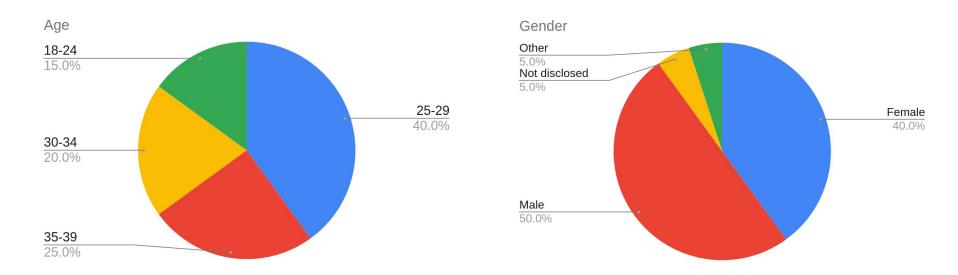


### 2025 Bulgarian ECFA Early-Career Researchers Panel survey on career prospects and diversity

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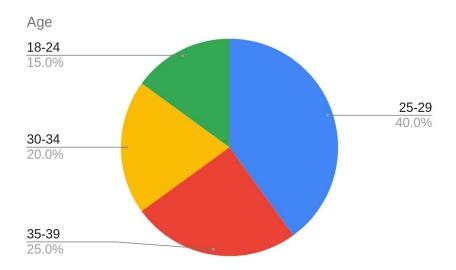
### General demographics

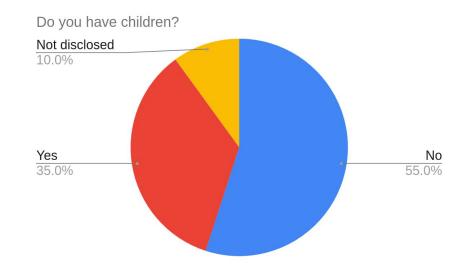
### All participants are Bulgarian - 20 responses



16 live and work in Bulgaria, 1 in Switzerland, 1 in Russia, 2 haven't disclosed

### General demographics

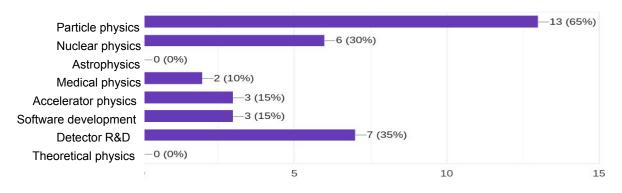


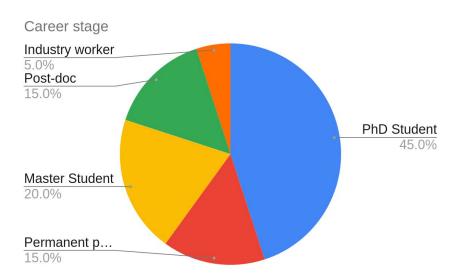


### Various demographic representatives.

### Career

# Out of 9 PhD students, 6 are also employed as researchers and one works as a teacher.



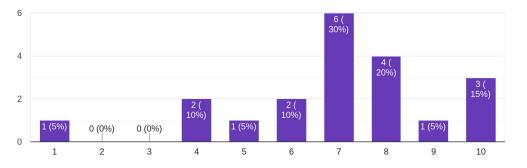


# All master students are also employed at academic institutions.

### Satisfaction and balance

#### **Overall happiness with their work**

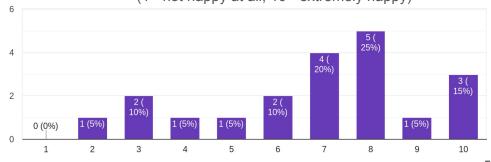
(1 - not happy at all; 10 - extremely happy)



### Most people cite **deadlines** and their **own personal motivation** as a reason to work too much.

#### Other reasons include:

- pressure from employers/supervisors and colleagues;
- grant writing;
- unclear workflow that leads to extra effort.

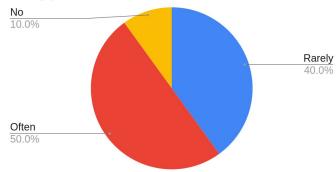


#### Happiness with work/life balance

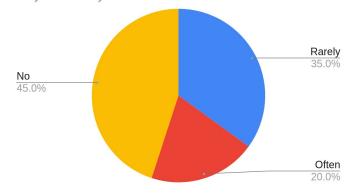
(1 - not happy at all; 10 - extremely happy)

### Satisfaction and balance

Do you need to work overtime (e.g. during weekends and holidays)?

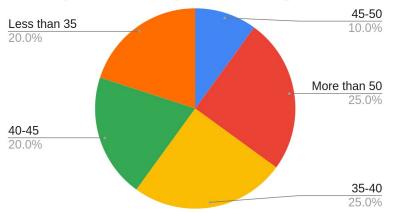


Do you feel like you work too much?



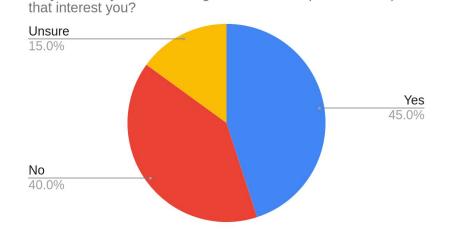
How many hours a week do you work on average?

# Most people admit they often **have to work overtime**.

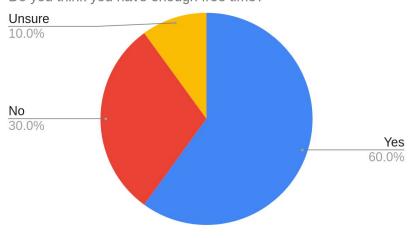


### Free time and interests

# Too many **administrative tasks** and **meetings** are the main reasons not to develop enough research.



Do you think you have enough time to develop research topics



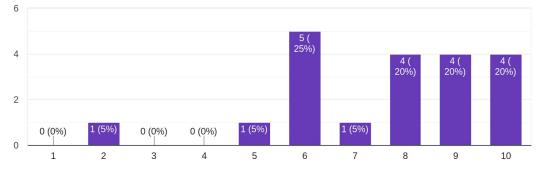
Do you think you have enough free time?

Other common reasons are having to **teach classes and/or advise students**, as well as having to **work a second a job**.

### Work environment

#### **Overall work-environment happiness**

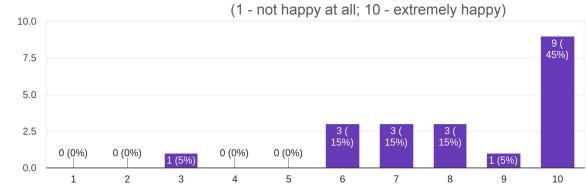
(1 - not happy at all; 10 - extremely happy)



### Most people are **rather happy** with their work environment, management and the groups they work in.

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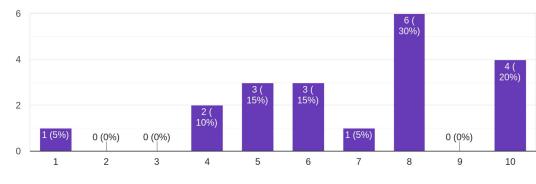
#### Happiness with management



### Work environment

Various results on whether one's voice is heard when making decisions and work is appreciated by fellow colleagues.

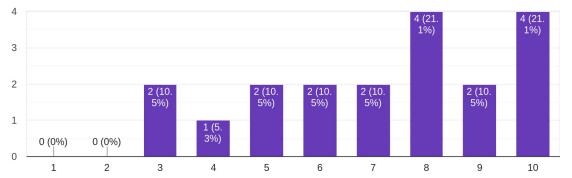
#### My voice is heard in decision making



#### (1 - not happy at all; 10 - extremely happy)

#### My colleagues appreciate my work

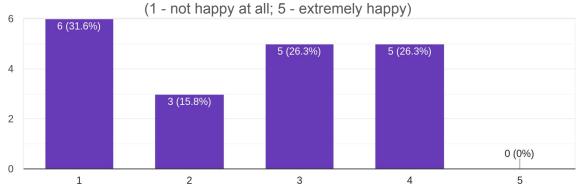
(1 - not happy at all; 10 - extremely happy)



Most people are rather satisfied with their own work, however **30% of people don't believe their work is beneficiary to the field.** 

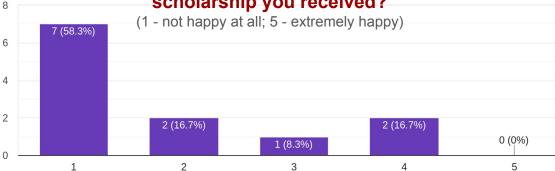
### Satisfaction with the salary

#### How happy are you with your salary?



Satisfaction with the salary varies: most people are dissatisfied, however there are also positive results.

# How happy are you with the PhD scholarship you received?



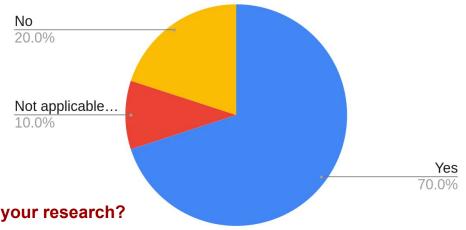
Generally people think the **PhD scholarships are insufficient**.

# Trainings, funding and presentation

Most participant are able to present their work at various scientific events.

Yet, they are not fully aware of all funding opportunities for their research.

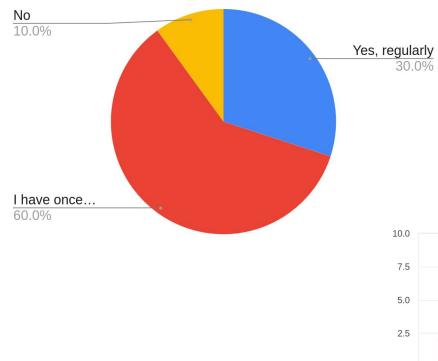
Do you have enough opportunities to present your work at scientific events?



#### How informed are you about funding opportunities for your research?

(1 - not informed at all; 5 - fully informed)

## Trainings, funding and presentation

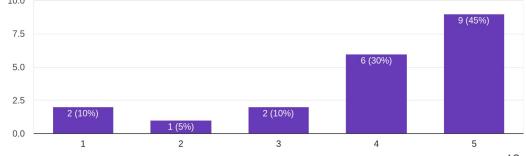


Do you participate in outreach activities?

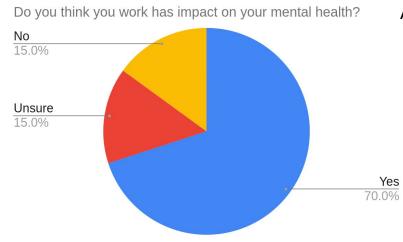
Despite realizing the **great importance of outreach activities**, most participants do not participate regularly in such events.

#### How important do you find outreach activities?

(1 - not informed at all; 5 - fully informed)



### Stress, mental health and discrimination



A small amount of people also cite **communication** (and lack thereof) with their colleagues and management as a source of stress.

2 out of 20 people claim to have experienced or witnessed discrimination of any sort at the workplace.

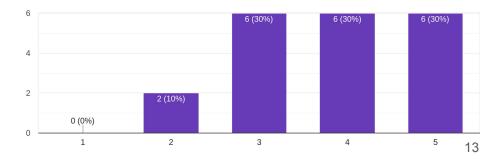
A large number of people (15 out of 20) cite the **uncertainty about the future** as their main source of stress.

The **short deadlines and lack of time** is the second most common problem (12 out of 20).

Other common reasons are **too much work and too many different tasks.** 

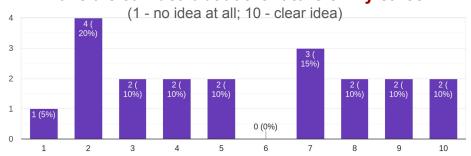
#### How stressed are you?

(1 - not stressed at all; 5 - extremely stressed)



### Prospects about the future

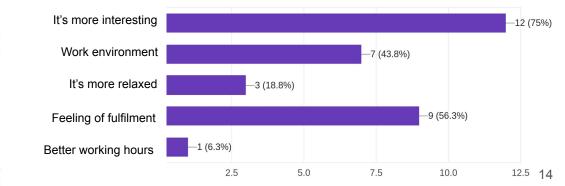
#### 55% of the people would choose the same career path if given the chance.



#### "I have a clear idea about the future of my career"

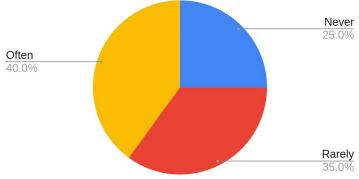
4 out of 20 people **plan to go work in the industry**, 1 already has. Everyone else plans to stay in academia.

The main reason to switch to industry is higher salaries and secure positions.



Reasons to choose academia

How often do you think about quitting physics and switching wour occupation entirely?

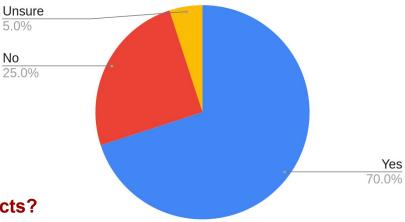


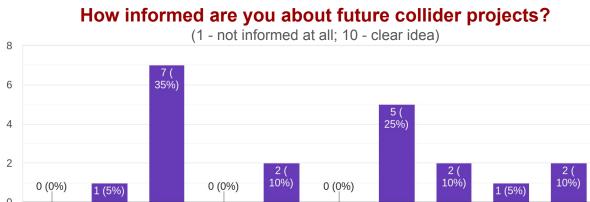
### The future of HEP

12 out of 20 participants are interested in future collider projects, though half of all are not well informed on the subject.



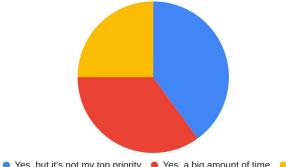
No



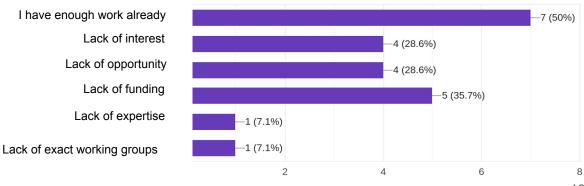


### The future of HEP

Would you dedicate your time to developing future collider projects?

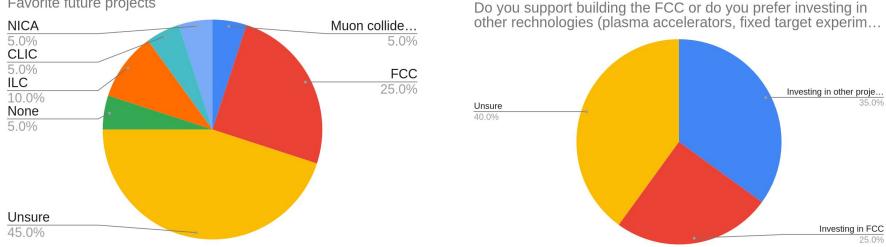


Though all participants point out their busy schedules and lack of funding, they would like to dedicate time and effort to development of future collider projects.



#### **Reasons not to engage in future collider projects**

# **Opinions about future projects**

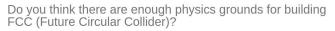


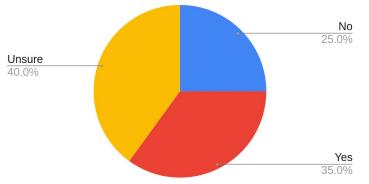
Favorite future projects

There is a high percentage of participants interested in other projects than FCC.

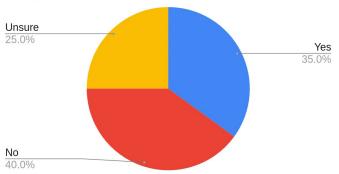
Yet, there is a high fraction of participants unsure on the best possible future scenarios.

# **Opinions about future projects**



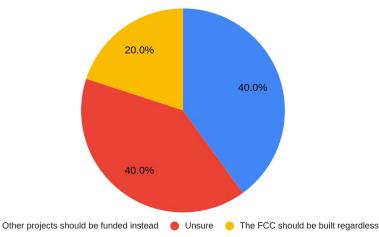


Are you afraid building FCC would take away funding from other projects?



All participants have expressed great interest in doing research in Europe, despite some being unsure about the specific future HEP project.

If the CEPC is built before the FCC construction starts:



## Summary

- Most PhD and master students are also **employed either in research or academic institutions**.
- Majority of the participants are **happy with their work/life balance**.
- Most participants often work overtime.
- Main reasons to work too much are **deadlines and own personal motivation**.
- Main reasons not to develop enough research are administrative tasks and meetings.
- Most people are rather satisfied with their own work, however 30% of people don't believe their work is beneficiary to the field.
- Most participants are <u>dissatisfied with their salary value</u> and think the <u>PhD</u> <u>scholarships are insufficient</u>.
- Most people are **not fully aware** of all funding opportunities for their research.

### Summary

- Most participants do not participate regularly in outreach events.
- Main source of stress are the <u>uncertainty about the future</u>, <u>deadlines and lack of</u> <u>time</u>, as well as <u>too many tasks</u>.
- Small fraction of participants have been subjected to or witnessed discrimination at their workplace.
- Most people would still choose the same academic path if given the chance, but some still consider moving to industry, mainly because of <u>higher salaries and secure</u> <u>positions.</u>
- Most participants are **interested in the future collider projects**, though half are **not well informed on the subject**.
- There is a high percentage of participants interested in other projects than FCC.
- All participants have expressed great interest in doing research in Europe.