

On behalf of the yHEP management board:

Alina Nasr-Esfahani, Felipe Peña, Annika Thiel, Leonel Morejon, Michael Lupberger, Pardis Niknejadi, Valerie Lang, Farah Afzal

#### 2

# Young High Energy Physicist Association

- Representing early career scientists (everybody w/o permanent contract) Phd students, Postdocs, Junior Research-Group Leaders, etc.
  - Founded in 2015, currently >~300 members
- Sections  $\rightarrow$  Related to committees
  - $\circ \quad \text{Particle physics} \to \underline{\mathsf{KET}}$
  - $\circ \quad \text{Astroparticle physics} \to \underline{\mathsf{KAT}}$
  - $\circ$  ~ Physics of Hadrons and Nucleons  $\rightarrow$   $\underline{\mathsf{KHuK}}$
  - New since the past year: Accelerator physics  $\rightarrow KfB$
- yHEP with one ex-officio member in KET, KAT, KHuK (KfB ongoing)

- Goals
  - Assessing and improving situation of non-permanent scientists
  - Shaping the future of physics
  - Improvement of environmental sustainability in science
  - Networking

Contact & Info: yhep-info@desy.de Webpage LinkedIn

Become a member? Sign-up to the mailing list



## yHEP Management Board (12/2021 - 12/2022)



Elected by members every year  $\rightarrow$  2 representatives per section 

#### **Particle Physics**



Valerie Lang

Chair Akad. Rat a.Z. Uni Freiburg



Michael Lupberger

Postdoc Uni Bonn



### **Astroparticle Physics**



PhD Student Uni Wuppertal

#### Hadrons & Nuclei



Jun. Prof. Uni Bonn

#### **Accelerator Physics**



Felipe Peña

PhD student Uni Hamburg/ DESY



Farah Afzal

Postdoc Uni Bonn



Pardis Niknejadi

Tenure track scientist DESY

Dep. Chair

Leonel

Morejon

Postdoc Uni Wuppertal

### Newly elected yHEP Management Board

Elected by members every year  $\rightarrow$  2 representatives per section 

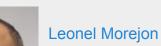
#### **Particle Physics**



Valerie Lang

Chair Akad. Rat a.Z. Uni Freiburg





**Astroparticle Physics** 

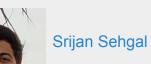
Dep. Chair

Postdoc Uni Wuppertal



Michael Lupberger

Postdoc Uni Bonn



PhD student Uni Wuppertal

# Hadrons & Nuclei

#### Farah Afzal Postdoc

Uni Bonn

#### **Accelerator Physics**



#### Felipe Peña

PhD student Uni Hamburg/ DESY



Philipp Krönert PhD student Uni Bonn



Pardis Niknejadi

Tenure track scientist DESY



### yHEP activities in the past year



- yHEP survey: Collecting and presenting data on young scientists' perspective
- yHEP activities involving KET/ECFA and KHuK/NuPECC
- yHEP contributions to KHuK brochure
- Other activities

### yHEP survey



- Survey conducted in March 2022 among yHEP members
  - On the situation of young researchers in Germany
  - Covering the areas
    - General demographics
    - Work situation
    - Financial/contract situation
    - Work-life balance
    - Career paths
    - Diversity and Inclusion
    - Feedback
  - 131 complete responses
- Presentation of first results
  - At the RECFA visit
  - At the annual meetings this year

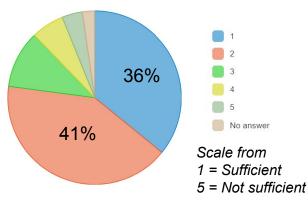
Accelerator Other physics (KfB) 8% Physics of 10 hadrons and 21% Particle nucleons 59% 27 physics (KHuK) 77 (KET) 9% 12 Astroparticle physics (KAT)

Many thanks to all who replied!

• Further analysis is still ongoing - if you are interested to contribute, please let us know!

### Research and the German system

• What is appreciated and what not



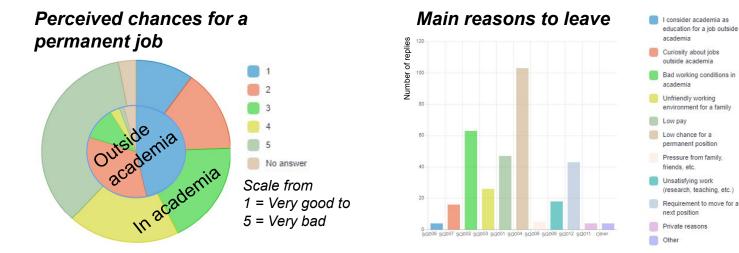
#### Amount of scientific freedom

#### Pros and cons of the German scientific system

- + Diversity and quality of research
- + Overall funding situation
- + International collaboration
- Short-term contracts (for the experts: WissZeitVG)
- Unclear long-term perspective
- Required coverage of long-term tasks (teaching, technical support, etc) by non-permanent staff with too little benefit for their career development
- (Very) Good satisfaction with the scientific freedom in Germany (77%)
- Main issues seen with short-term contracts + unclear perspective
  - More permanent (non-professor) positions would be vital!

### Job chances in the field

• Chances to stay and reasons to leave



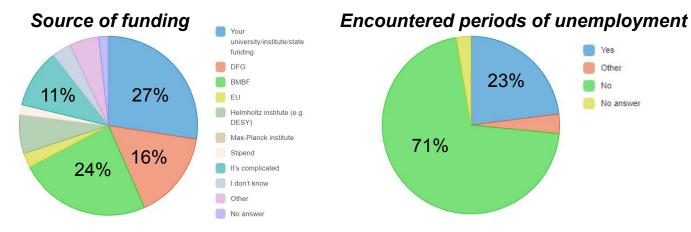
- Majority would like to stay in academia, but sees only small chances
  - Chances for positions outside of academia perceived as very positive
  - Main reasons to leave the field: Low chance for permanent job, bad working conditions, low pay



### **Contract situation**



- About 80% of respondents with contracts <= 3 years duration
  - Variety of funding options in Germany

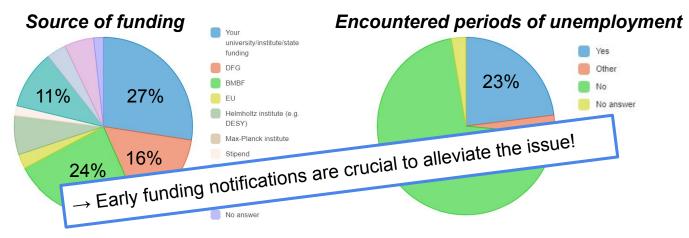


- Significant funding (40%) through BMBF or DFG  $\rightarrow$  Note: From sample of respondents!
- Funding situation is complicated in Germany → Many short-term contracts from different sources, or partial funding from different sources at the same time
- Consequence: Periods of unemployment if contracts don't exactly match end & start dates

### **Contract situation**



- About 80% of respondents with contracts <= 3 years duration
  - Variety of funding options in Germany



- Significant funding (40%) through BMBF or DFG  $\rightarrow$  Note: From sample of respondents!
- Funding situation is complicated in Germany → Many short-term contracts from different sources, or partial funding from different sources at the same time
- Consequence: Periods of unemployment if contracts don't exactly match end & start dates

### **BMBF** funding

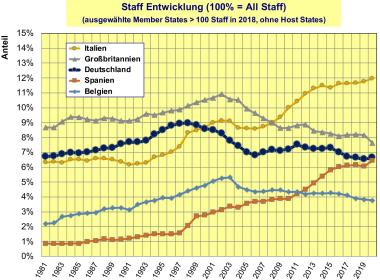


- Recap: Funding notifications from BMBF tended to arrive late
  - $\circ$  Particularly bad situation for the funding period 2021-2024  $\rightarrow$  Notifications arrived even after start of new funding period
  - Protest letter from yHEP sent to the BMBF in November 2021, pointing out the implications for non-permanent researchers
    - Coordinated with KET and KHuK, also informed KAT
    - $\blacksquare$  Reply from BMBF received  $\rightarrow$  discussions via DESY-PT how to improve next time
- Joint call from yHEP, KET and KHuK
  - Move full process 3 months earlier
     → have funding notifications at latest
     3 months before start of new funding period
  - Consequence: Strategy discussion (1st step)
     3 months earlier
- Announcement of effort by BMBF in this direction for 2024-2027 at <u>KET meeting</u> → Many thanks for this!



### Situation of German employment at CERN

- Germans under-represented among CERN staff
  - Mismatch between Germany's CERN budget contribution (~21) and German CERN staff (7 %)
  - CERN-Germany working group (WG) founded to address the problem
- yHEP involved in KET-BMBF and CERN-Germany WG meeting on the topic
  - Discussions from yHEP with 3 engineers/hardwarerelated researchers to identify potential issues
  - Results presented to CERN-Germany WG in September 2022
    - Positively received by BMBF
    - Fingers crossed that it will improve the situation



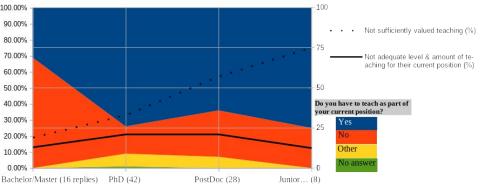
Source: DAC webpage

### Teaching



- One outcome of the yHEP survey: Potential issue = Teaching
  - Dissatisfaction of young researchers with teaching situation observed  $\rightarrow$  in particular for junior research group leaders, etc.
  - From the survey how could the value of teaching be improved?
     46 replies with suggestions
    - Better comparability between universities / institutes
    - Recognition of teaching responsibilities for applications
    - Proper training in teaching
    - Honest time allocation and inclusion in job profile





For universities only

### yHEP activities - ECFA and NuPECC

- European Committee for future accelerators (ECFA)
  - Visit in Germany, Berlin: <u>1 April 2022</u>
    - yHEP included with presentation on <u>Perspective of Young Scientists</u>
  - Resulting statements from the RECFA visit include <u>Executive summary</u> and <u>Letter</u>
    - $\rightarrow$  Recommendations in relation to young researchers:
      - Keep number of PhD students with adequate salaries (i.e. increase funding accordingly)

**FCFA** 

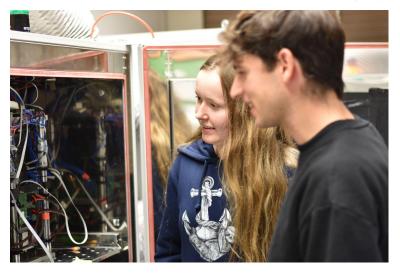
- Measures to increase the number of permanent scientist positions at universities
- Nominations for Early-Career Researcher Panel (ECR) of ECFA
- Nuclear Physics European Collaboration Committee (NuPECC)
  - yHEP wrote a letter to chair of NuPECC, proposing to also include representatives from young researchers in their committee→ positively received
  - yHEP submitted <u>contribution</u> for NuPECC LRP 2024:
    - Inclusion of direct representatives of early career researchers in NuPECC
    - Support the establishment of more groups like yHEP in other European states
    - Establish working groups with young researchers within NuPECC

#### 15

### Contributions to KHuK brochure

- Chapter 13: "Wissenschaftlicher Nachwuchs f
  ür Forschung und Wirtschaft"
  - yHEP updated chapter with new paragraphs on graduate schools, summer schools, PhD prices, yHEP activities
  - you are welcome to add information (especially from Nuclear physics)
  - New pictures of young scientists taken, which can be included in brochure
- Chapter 15: "Nachhaltigkeit"
  - Sustainability in science is an important topic that should be included in the brochure

 $\rightarrow$ Annika and Tetyana have added chapter

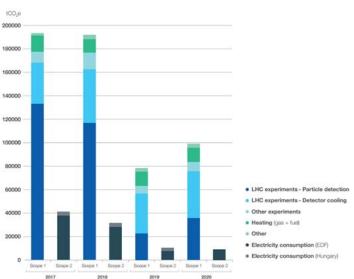




### Environmental sustainability in science

**YHEP** association

- Bringing environmental sustainability to the forefront in HEP
  - <u>Addendum</u> to previous yHEP statement published in Dec 2021 on <u>webpage</u>
  - yHEP Campaign: "Know you footprint" in preparation → If interested to contribute, please let us know
- CERN/HEP have non-negligible impact on the environment!
- Related workshops/forums in 2022:
  - <u>Sustainable HEP Workshop 2nd edition</u> in Sept.
  - Town hall: CERN Year of Environmental Awareness: outcome and future perspectives in Sept.
  - <u>CERN and the Environment</u> in Oct.
  - ATLAS and DESY sustainability forums (re-)instantiated



Source: Vol 2: CERN Environment Report

### Networking and events



- Annual yHEP meetings at DPG spring conferences in 2022
  - KET+KAT annual meeting: 23 March 2022 (Heidelberg)  $\rightarrow$  via Zoom at the end
  - KHuK+KfB annual meeting: 29 March 2022 (Mainz)  $\rightarrow$  via Zoom at the end
  - Next annual meeting in 2023: DPG spring meeting in Dresden (20th-24th March)
- Next Panel discussion: Planned on the topic of Mental Health
  - If you have ideas for good speakers, please let us know
  - Stay tuned for the announcement!
    - If interested to join, sign-up to our mailing list!  $\rightarrow$  Zoom link will be sent around there

### Conclusion

- yHEP = young High Energy Physicists Association
  - Representing interests of early-career researchers in Germany →collected data by doing a survey
  - yHEP activities ECFA and NuPECC
  - Helped to update KHuK brochure
  - Looking forward to more activities in the next year with a new management board!





 $\rightarrow$  Spread the word to PhD students, postdocs, etc  $\rightarrow$  Get in contact!

Contact & Info: yhep-info@desy.de Webpage LinkedIn Become a member? Sign-up to the mailing list

# Thank you for your attention!