



# A survey about the Italian Early-Career Researchers (ECR) situation

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On behalf of the italian members of the ECFA-ECR panel:

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### The ECFA-ECR Panel

- The European Committee for Future Accelerators (ECFA) Early-Career Researchers (ECR) Panel was formed in late 2020, in order to represent European ECR members in ECFA-related discussions
- Diverse range of individuals (from students to non-tenured academics) with backgrounds ranging from engineering to physics
- Currently about 70 members from 27 countries and 3 major laboratories
- Plenary Panel: 3-4 meetings per year
- Working groups structure:
  - Networking for ECRs in Instrumentation
  - Career prospects: getting out of the limbo
  - Electron-Ion Colliders
  - Diversity in Physics Programme

https://ecfa.web.cern.ch/ecfaearlycareer-researchers-panel

## Motivations of the survey

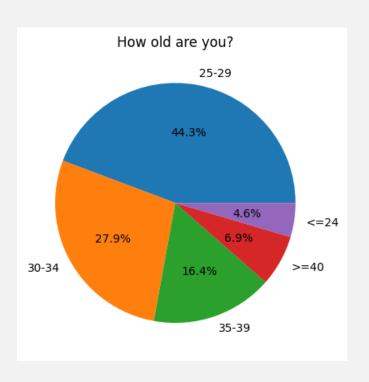
- The results of this survey were firstly presented during the R-ECFA representatives visit to Italy (INFN) on March  $4^{th}$  2022
- Interest in understanding the ECR perspectives about their work, their working conditions, the areas of interest, etc
- Addressed to non-permanent researchers working at or associated to INFN
- Impressive number of answers (305) in only 10 days
  - Sufficiently spread around the different INFN divisions and laboratories
  - 32.8% of the participants is INFN (non-permanent) employees
  - 65.2% is associated with INFN but works for University
  - 2% is associated with INFN but works for other institutions
- This means that non-permanent researchers are interested in these issues

## General information about the sample

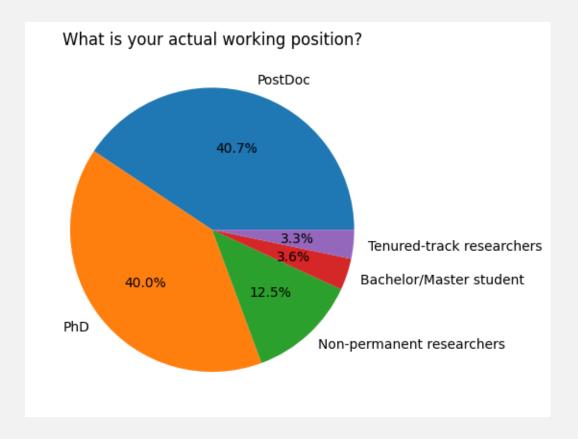
• 65.9%: men, 31.8%: women, 2% prefer not to answer, 0.3% other

• 94.1%: Italian, 3.3%: non-European, 2.3%: European but not Italian, 0.3%: prefers

not to answer

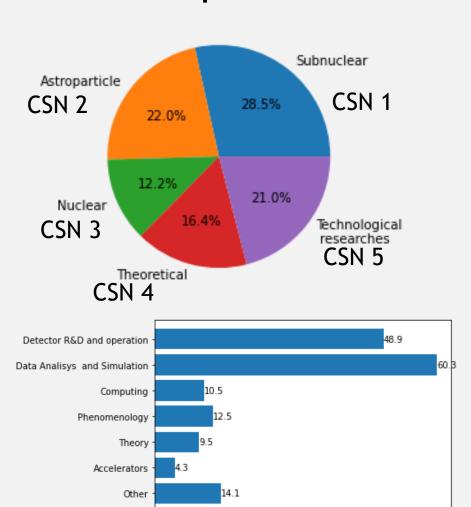


- >50% of nonpermanent researcher is older than 30
- ~ 7% is older than 40!!!



## Working profile

#### Well spread between the different CSN and different kind of activities

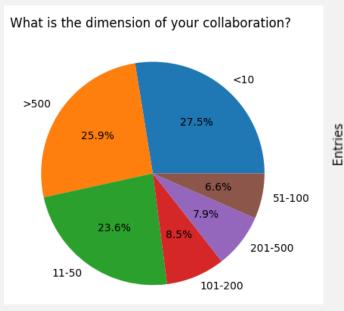


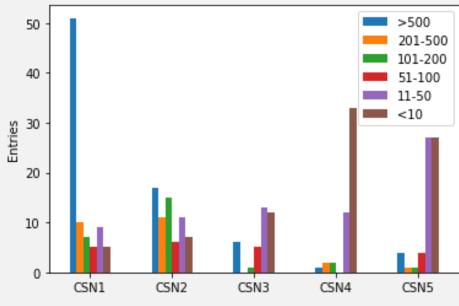
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Percentage

16.09.2022

50





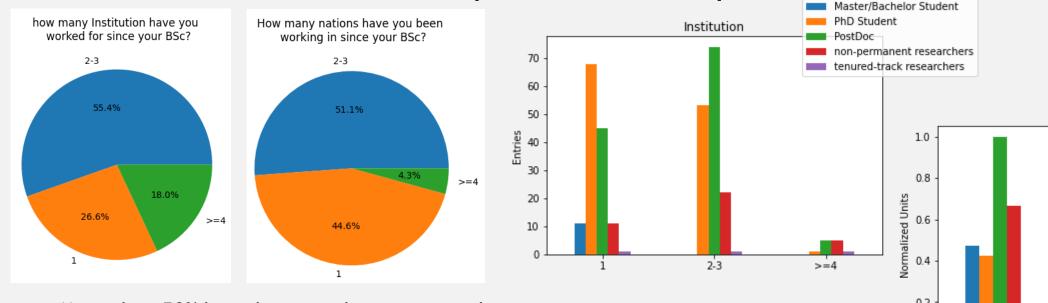
- 26% (~51%) is part of a collaboration with >500(<50) scientist
  - Surprisingly low (high) number
- Majority (64.6%) works weekly with <5 colleagues,</li>
   32.8 % with 6-15 colleagues

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do not want to answer

## Mobility of the sample

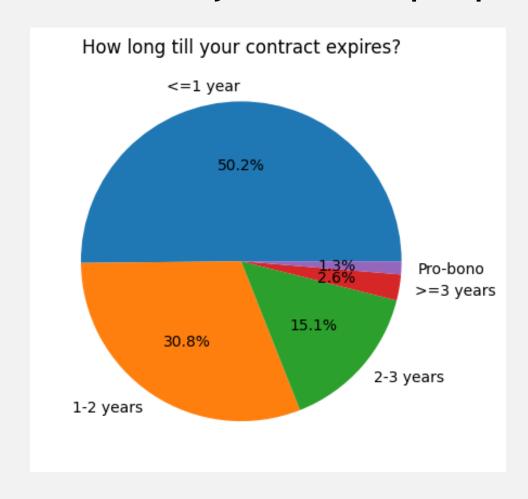
Researchers' mobility -> Promote interactions and strengthen research collaboration and support professional development

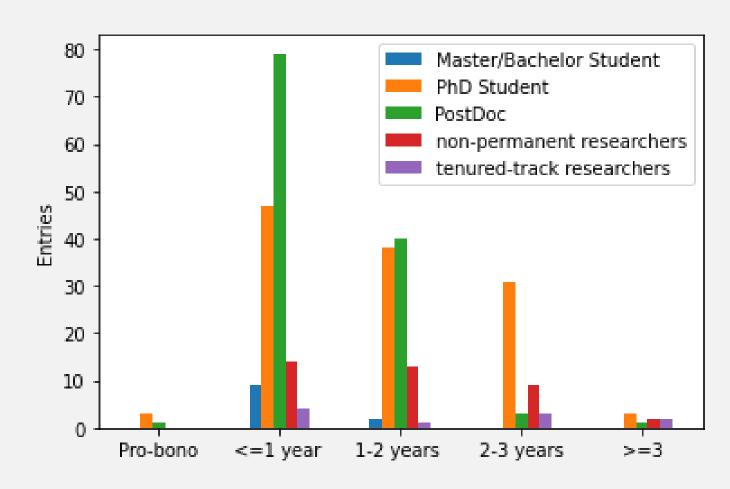


- More than 50% have been working in more than one country and for more than 1 Institution
- "1 institutes only" statistics is affected for 3.6% by bachelor/master degree students
- !!! underestimation of "1 institutes only" statistics not considering people working in the same place for both University and INFN (2 fake institutes)
- Correlations with respect to position and gender is low (gender plot is normalized for each entry)

### Contracts duration

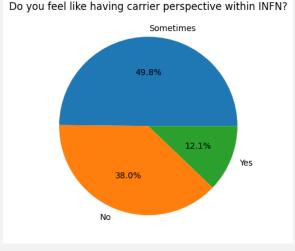
### Very short-term perspectives for non-permanent researchers...

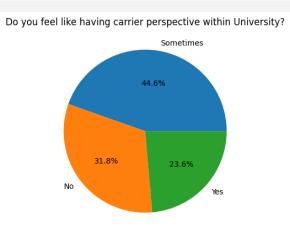


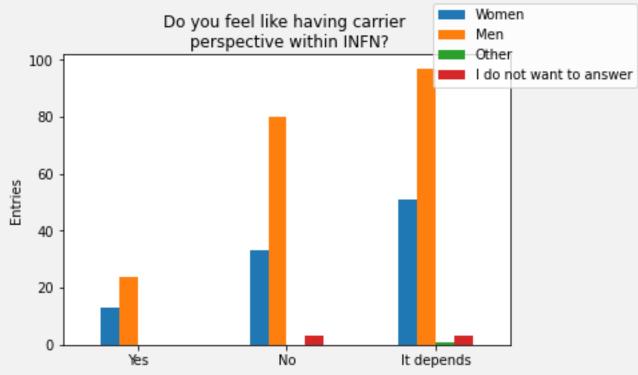


## Feeling about the future

## Discourage about their future carrier perspective within lNFN, Universities Do you feel like having carrier perspective within INFN? and Other Research Institutes





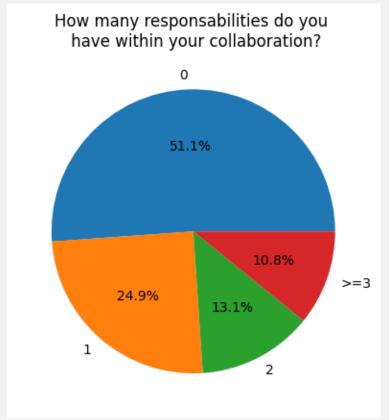


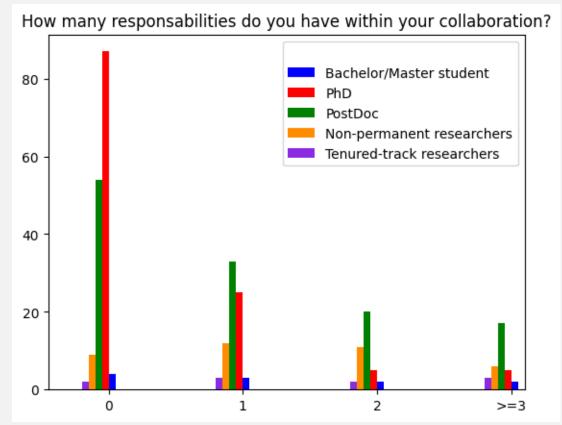
 No gender correlation, small bias for INFN scientists with respect to University/Other Institutes

## Responsibilities

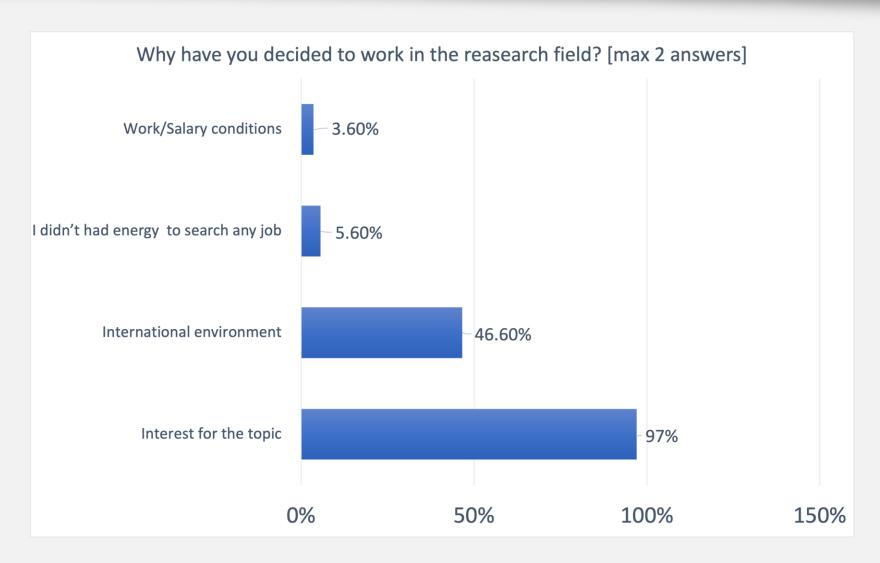
### Having "official" responsibility is fundamental for ECR (great boost to cv)

Small responsibility (even for tenured-tracks ) → Why?
 We do an important part of the job!

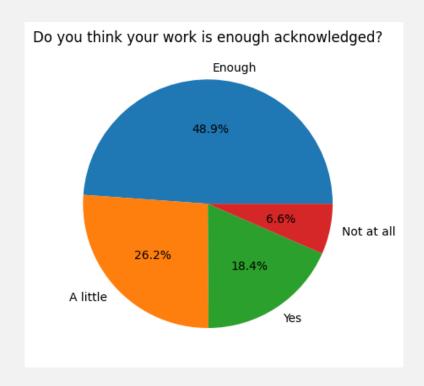


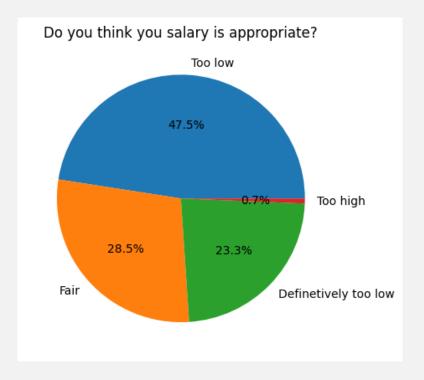


## Motivation for doing research



## Working acknowledgement and salary

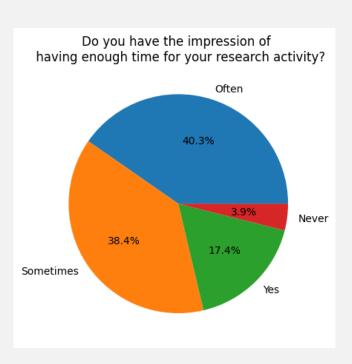


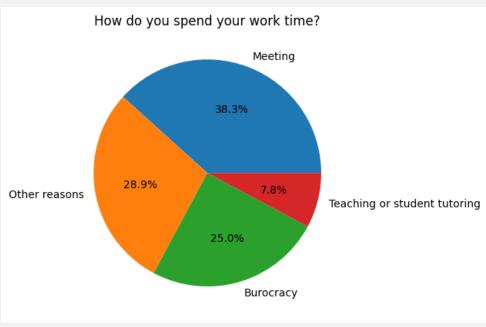


- ~32% of ECR think that recognition of their work is insufficient or null
- ~70% of ECR think that their salaries are low

## Working day: the feelings

### Hard work, too many meetings and a lot of stress!

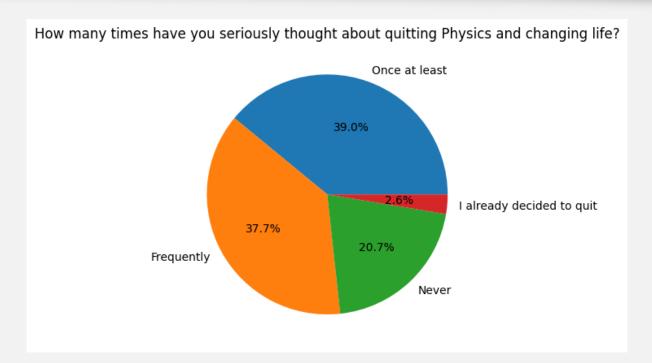


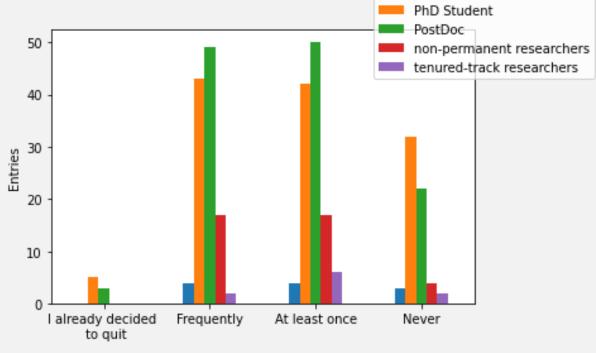


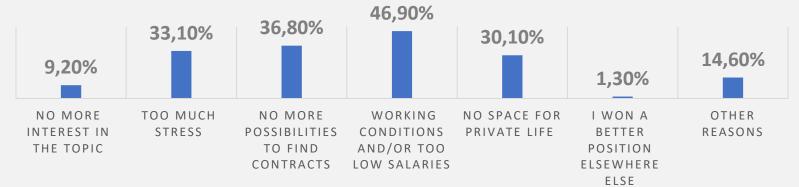


Master/Bachelor Student

## Quitting research



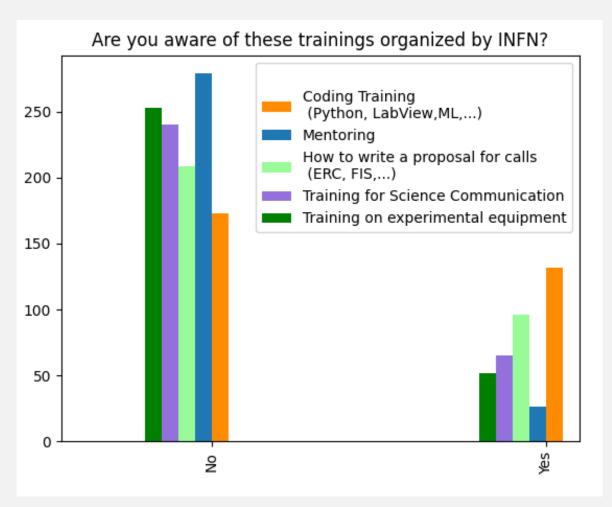




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## Are ECR informed about INFN training?

There are many trainings organized by INFN but often ECR are not aware of them!



- Trainings are organized for employees, while Post-Docs and PhD are only considered as associated
- Informed only if colleagues share the info!

Master/Bachelor Student

## Some good news to conclude...

Even if research seems not to be an easy career path the majority of the INFN ECRs

are satisfied with their work!

