

# System Usage & JupyterHub User Accommodation

Matt Heine

&

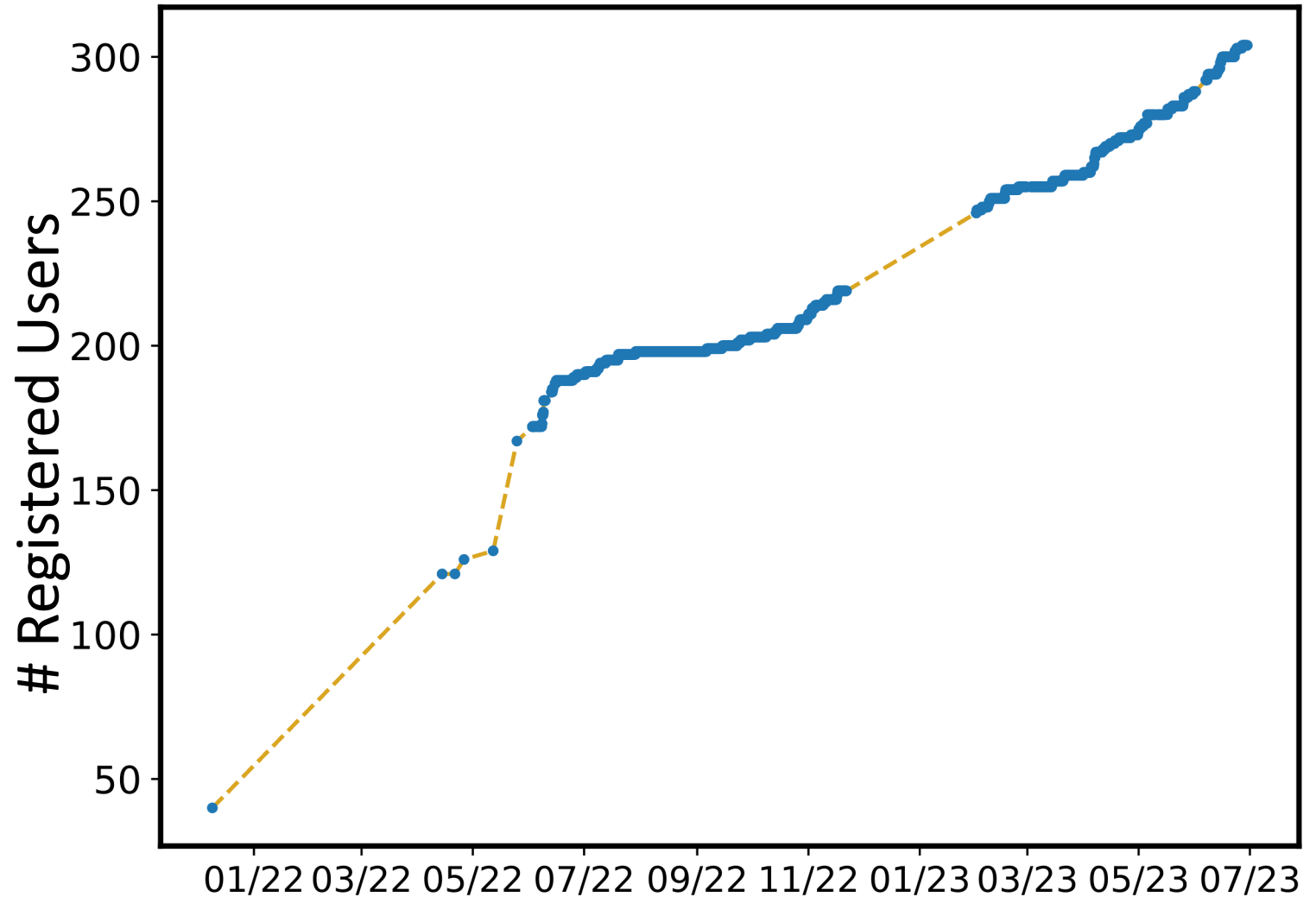
Luca Lavezzo



# Total Registered Users



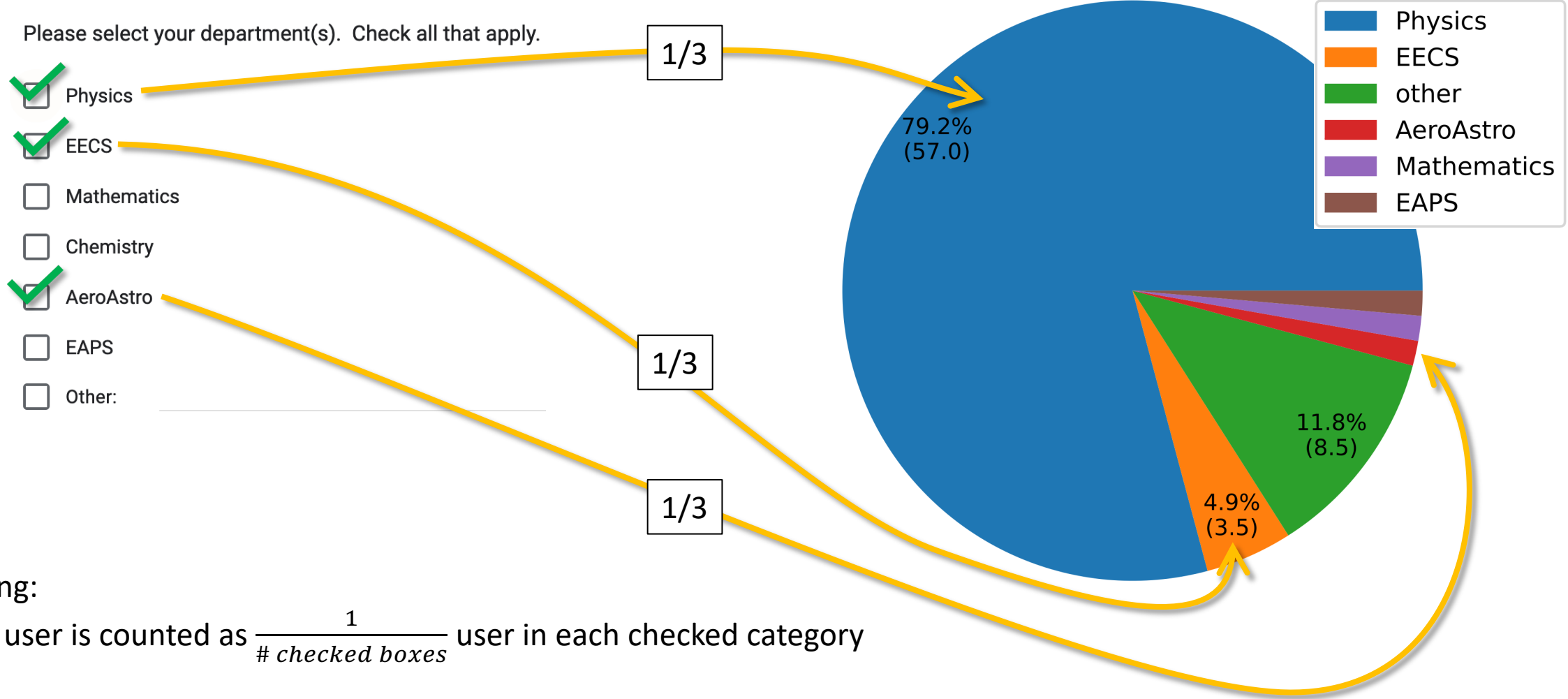
- Steady increase in past several months
- Crossed the 300 Registered Users milestone!
- Remainder of talk will focus on Active Users = logged on within the past 5 months
- # Active Users = 145



# How users are counted



Each user is asked this question:



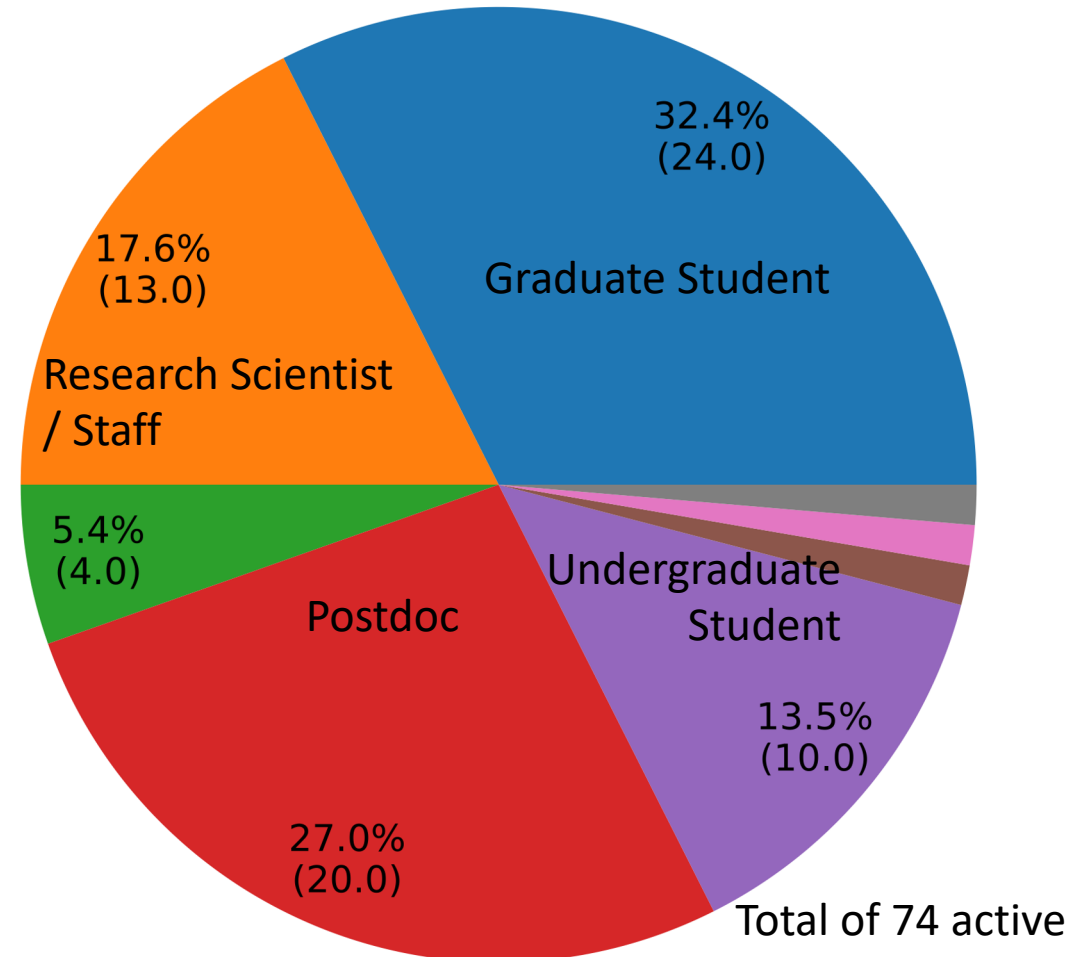
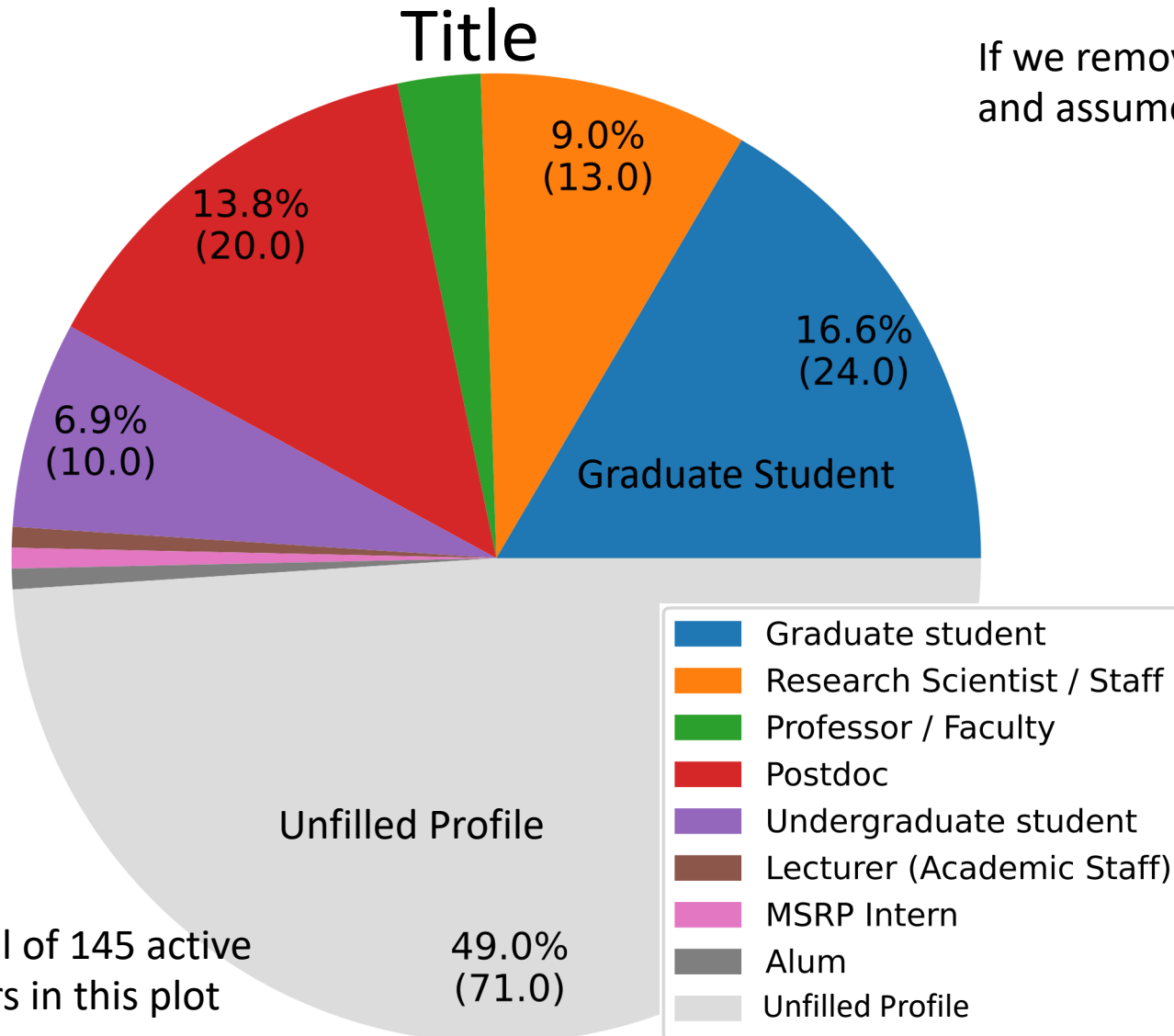
# Active Users: Who are they?

“Cooooo!”

- Lecturer (Introductory Physics)



If we remove the users who have not answered ('Unfilled Profile') and assume the remainder is representative of the whole ...



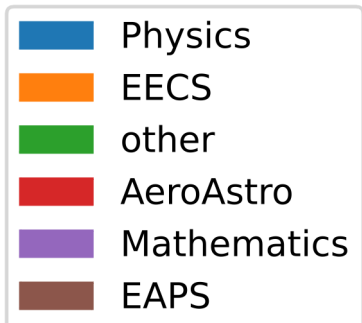
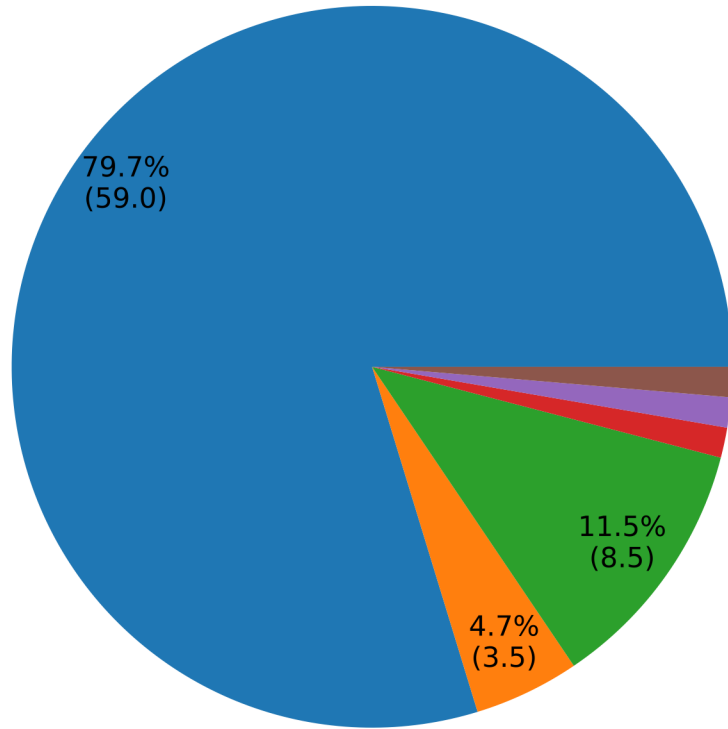
Note: Legend (top to bottom) is in order of wedges (counterclockwise)

- Nearly half are students
- Reasonable breakdown

# Active Users: Who are they?



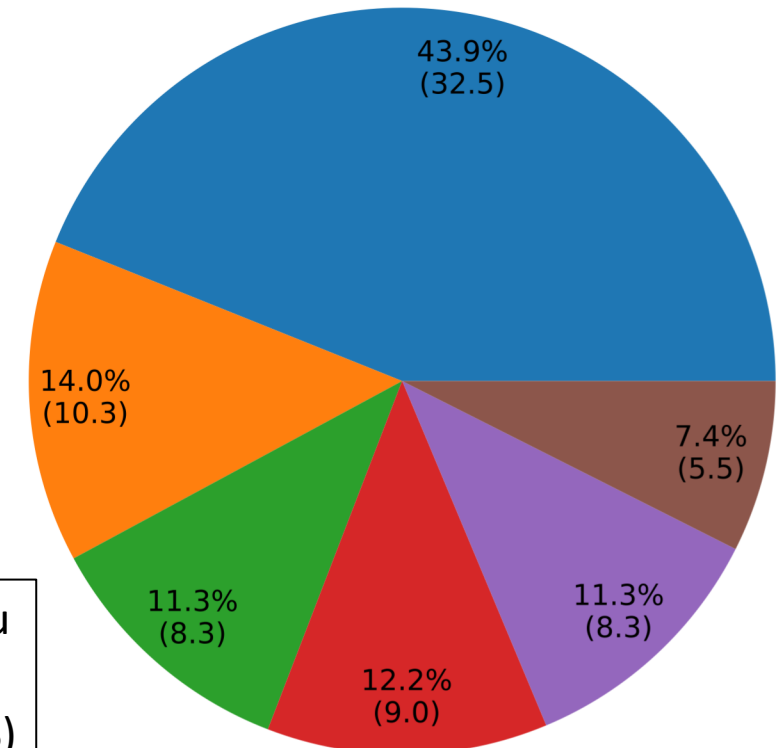
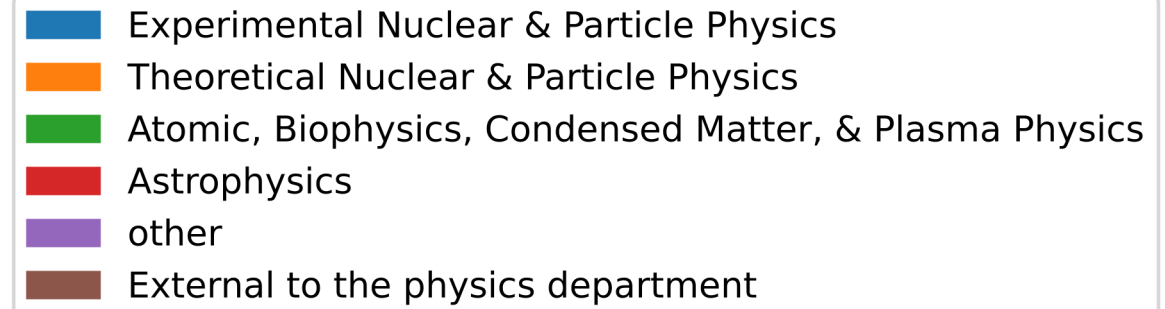
## Department



- Mostly Physics
- Experimental Nuclear & Particle Physics most represented (but not majority)
- Roughly even Division representation otherwise
- Active work to diversify (see later talk)

“Really appreciate the services you provide and hard work you put into this!”  
- Research Scientist / Staff ; Particle Physics Experiment (LNS)

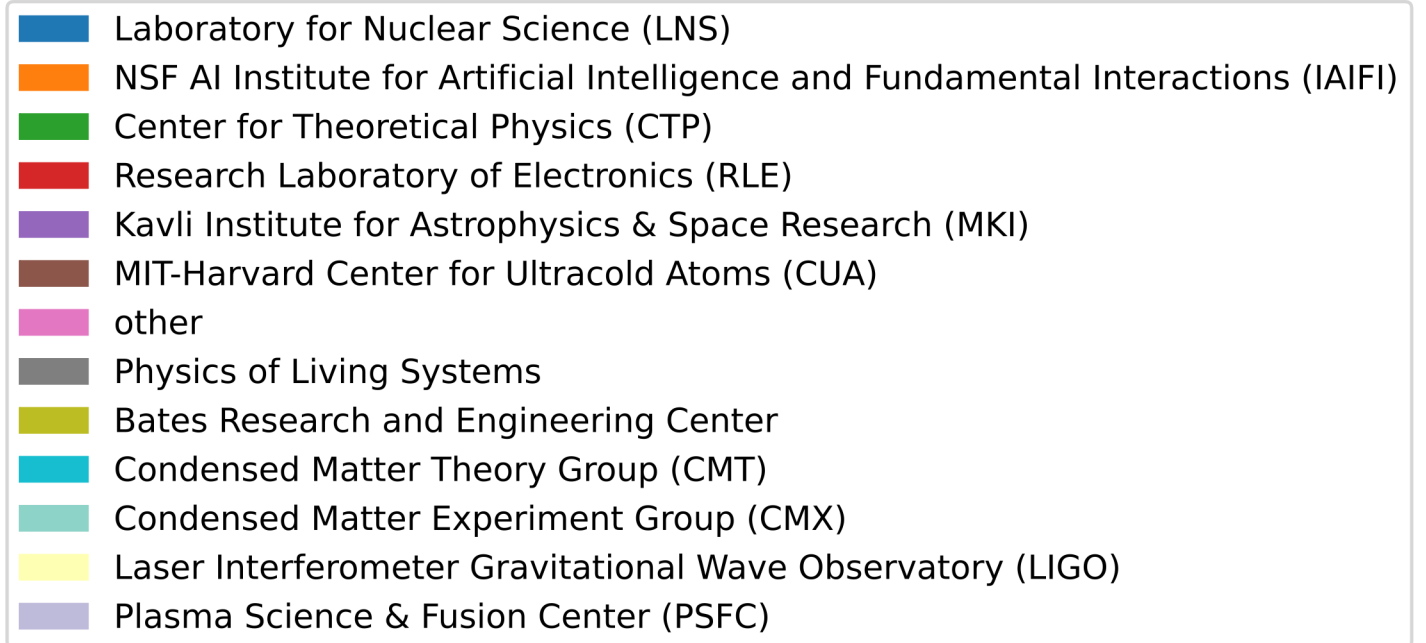
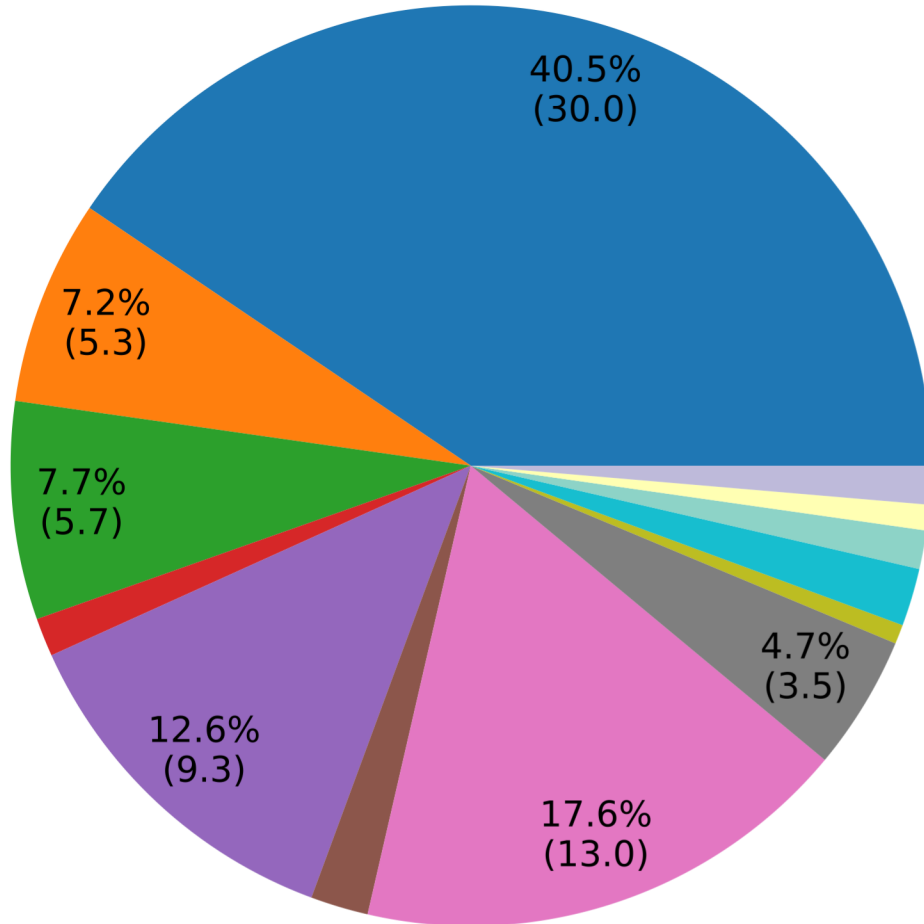
## Physics Division



# Active Users: Who are they?



## Lab / Center



- No majority
- LNS largest representation
- many centers represented

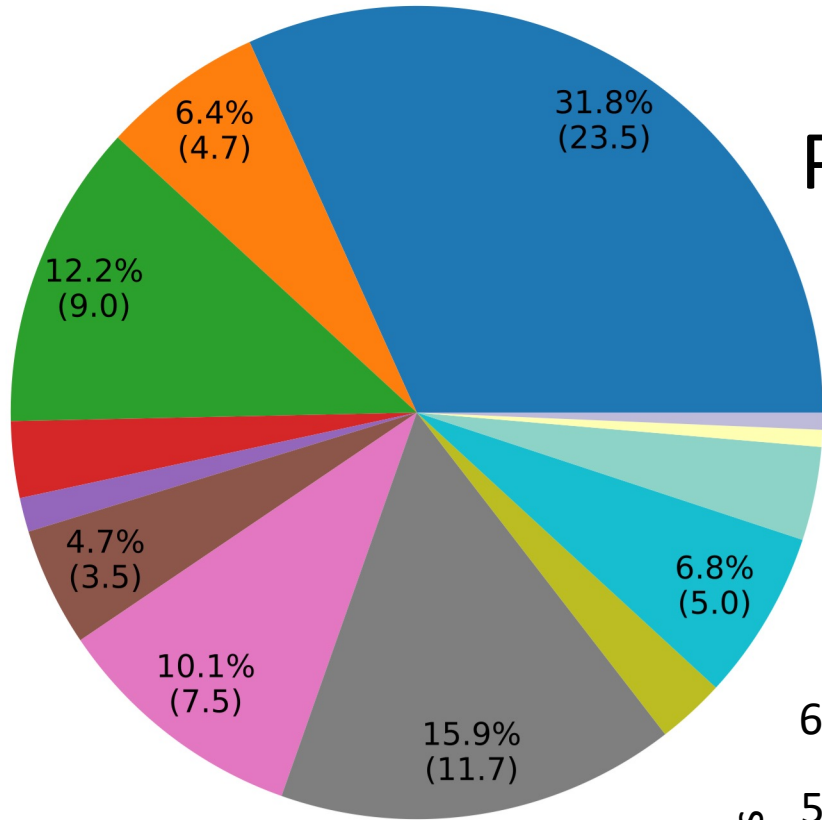
see also later 'Community Engagement' talk

"I and my Post-Doc [...] have used subMIT for several projects now and we really like the service. It fills a need in computing requirements that we did not know we had before!"

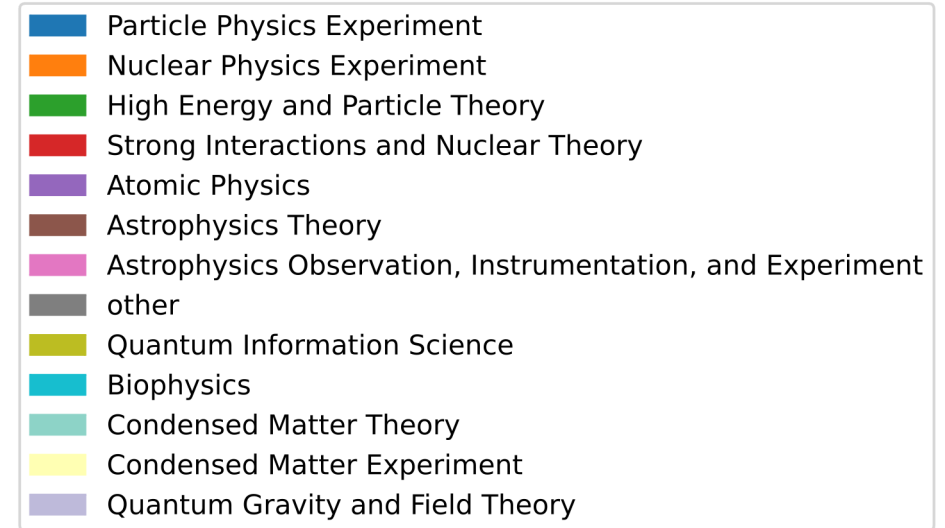
- Research Scientist / Staff; Astrophysics (MKI)

# Active Users: Who are they?

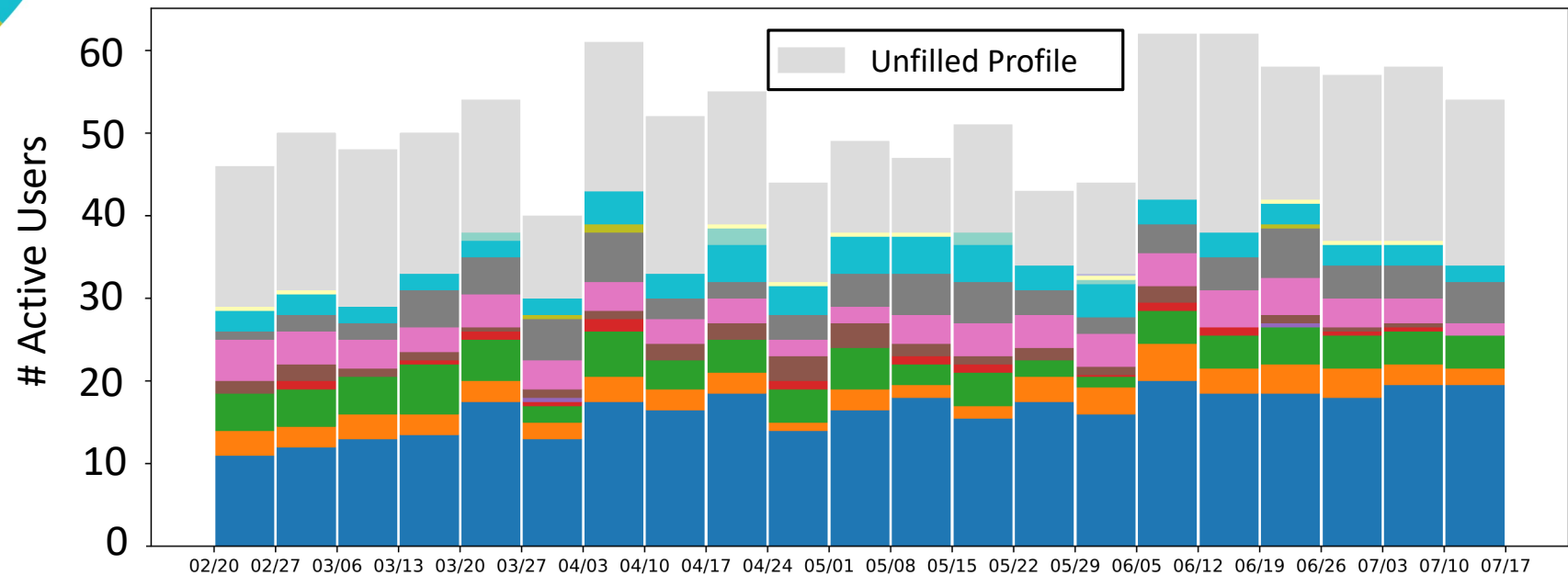
“Thank you so much for operating subMIT! It has been incredibly helpful to my research!”  
 - Graduate Student (Physics, EECS) ; Quantum Information Science (RLE)



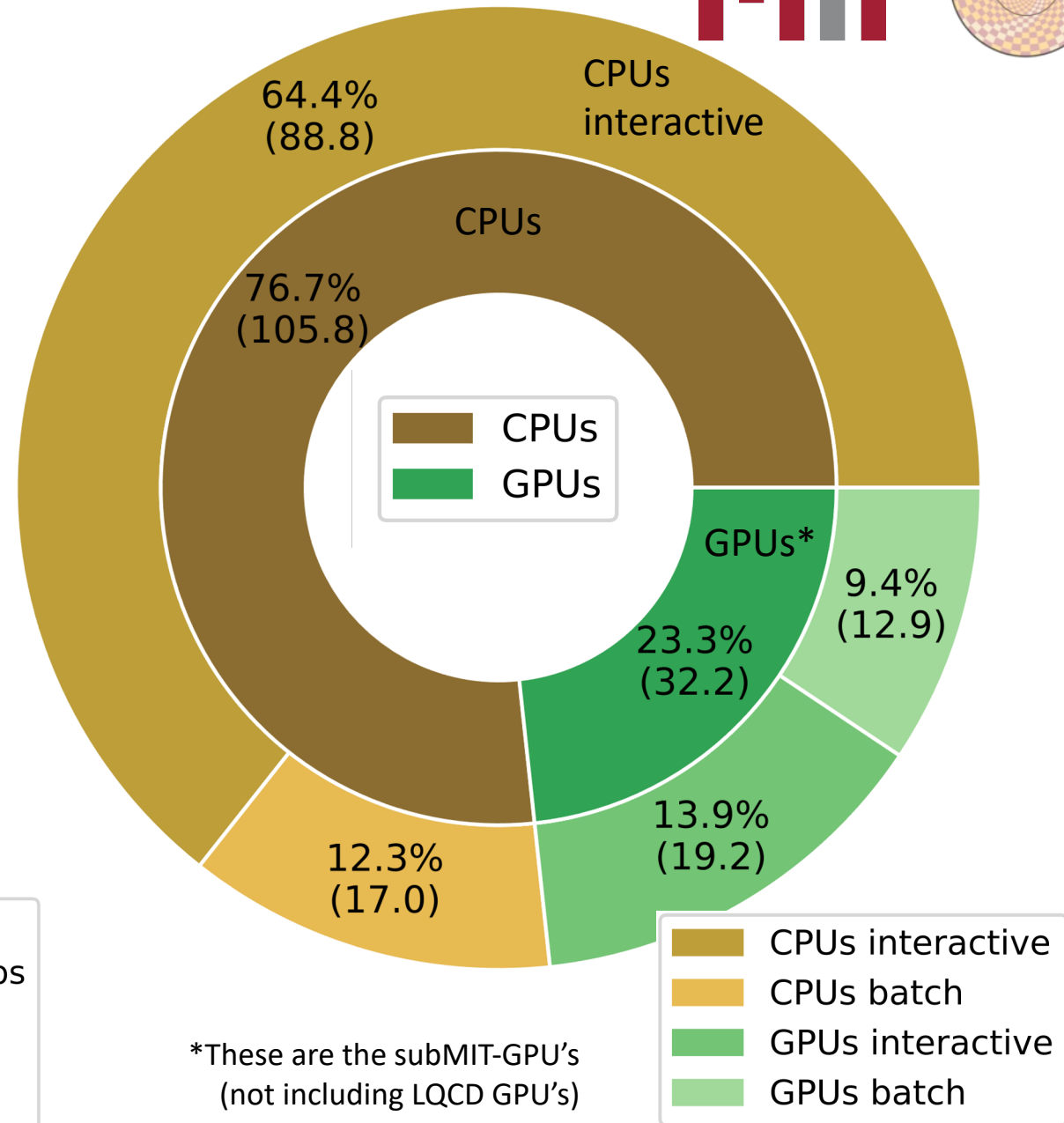
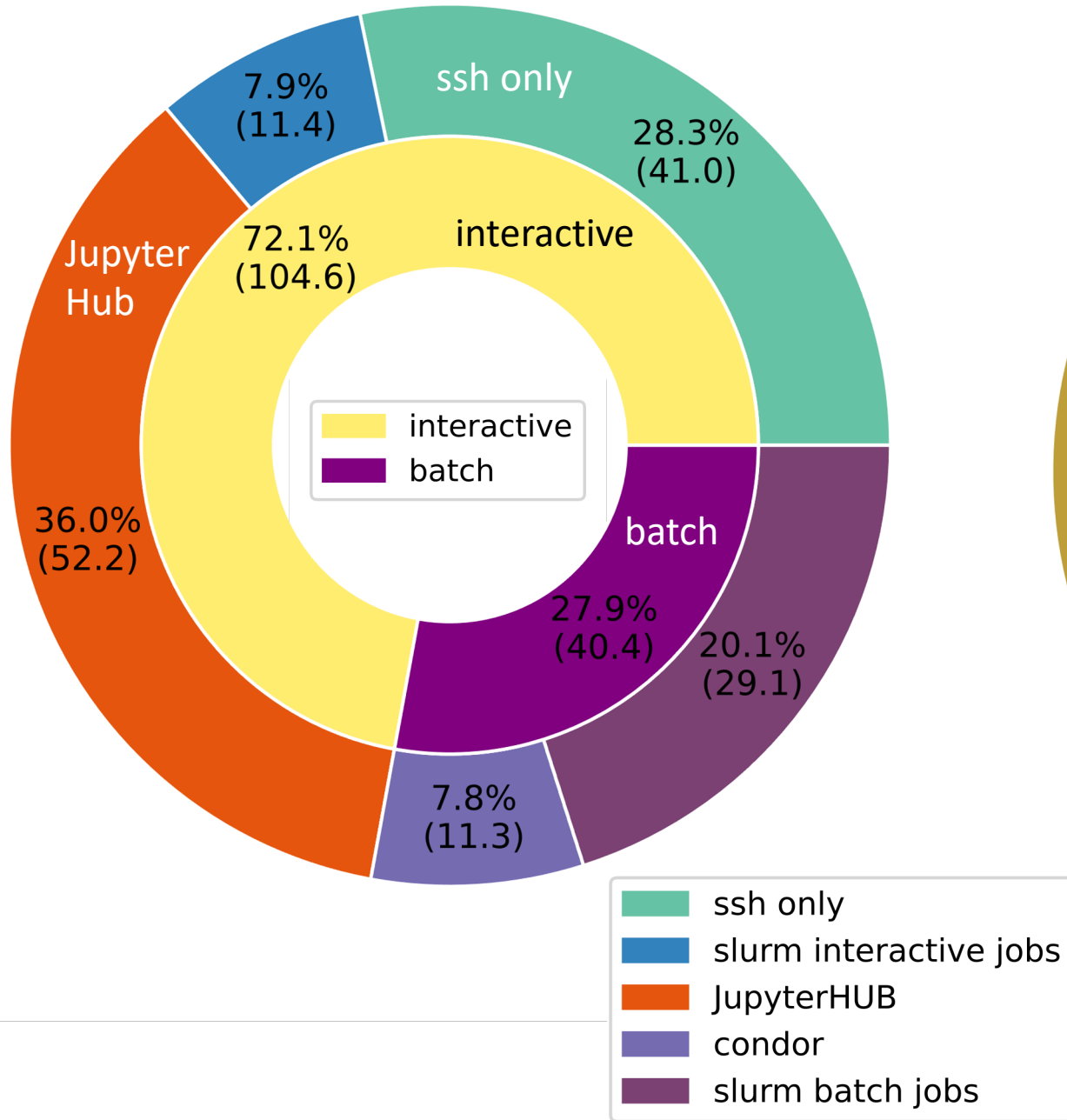
## Physics Research Area



- No area is majority
  - Particle Physics most represented
  - diverse user base (with plans to further diversify)
- see later ‘Community Engagement’ talk



# Active Users: How do they use the system?





# Essential Features

Note: Does not use the fractional counting of previous slides. Now examining each feature rather than user population.

E.g. “How many users identified GPUs as an essential feature?”

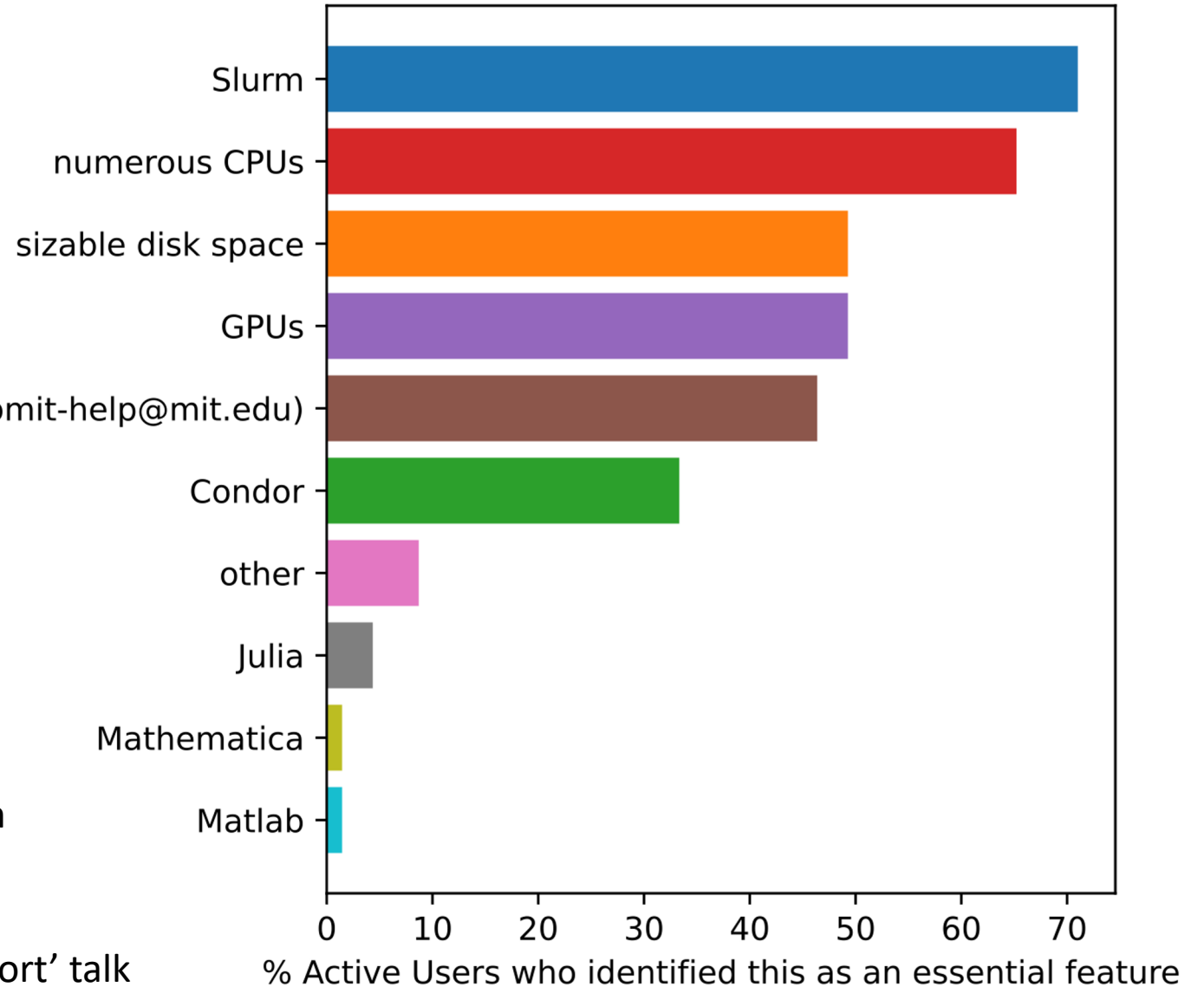
- Most find Slurm & CPUs essential
- Nearly 50% of users consider Support Staff essential
- Support Staff rivals even hardware for importance
  - emails
  - appointments
  - setting up software / environments
  - customization
  - education
  - ‘outreach’

see also later ‘User Support’ talk

“Thanks!”

- many users of [submit-help@mit.edu](mailto:submit-help@mit.edu)

What are the key features that are essential for you on subMIT?



# Feedback

I and my Post-Doc [...] have used subMIT for several projects now and we really like the service.

It fills a need in computing requirements that we did not know we had before!

- Research Scientist / Staff  
Astrophysics (MKI)

Thank you so much for operating subMIT! It has been incredibly helpful to my research!

- Graduate Student (Physics, EECS)  
Quantum Information Science (RLE)

Really appreciate the services you provide and hard work you put into this!

- Research Scientist / Staff  
Particle Physics Experiment (LNS)

Cooooool!

- Lecturer (Introductory Physics)

Thanks!

- many users of [submit-help@mit.edu](mailto:submit-help@mit.edu)