

Employment of Physics PhDs and Masters

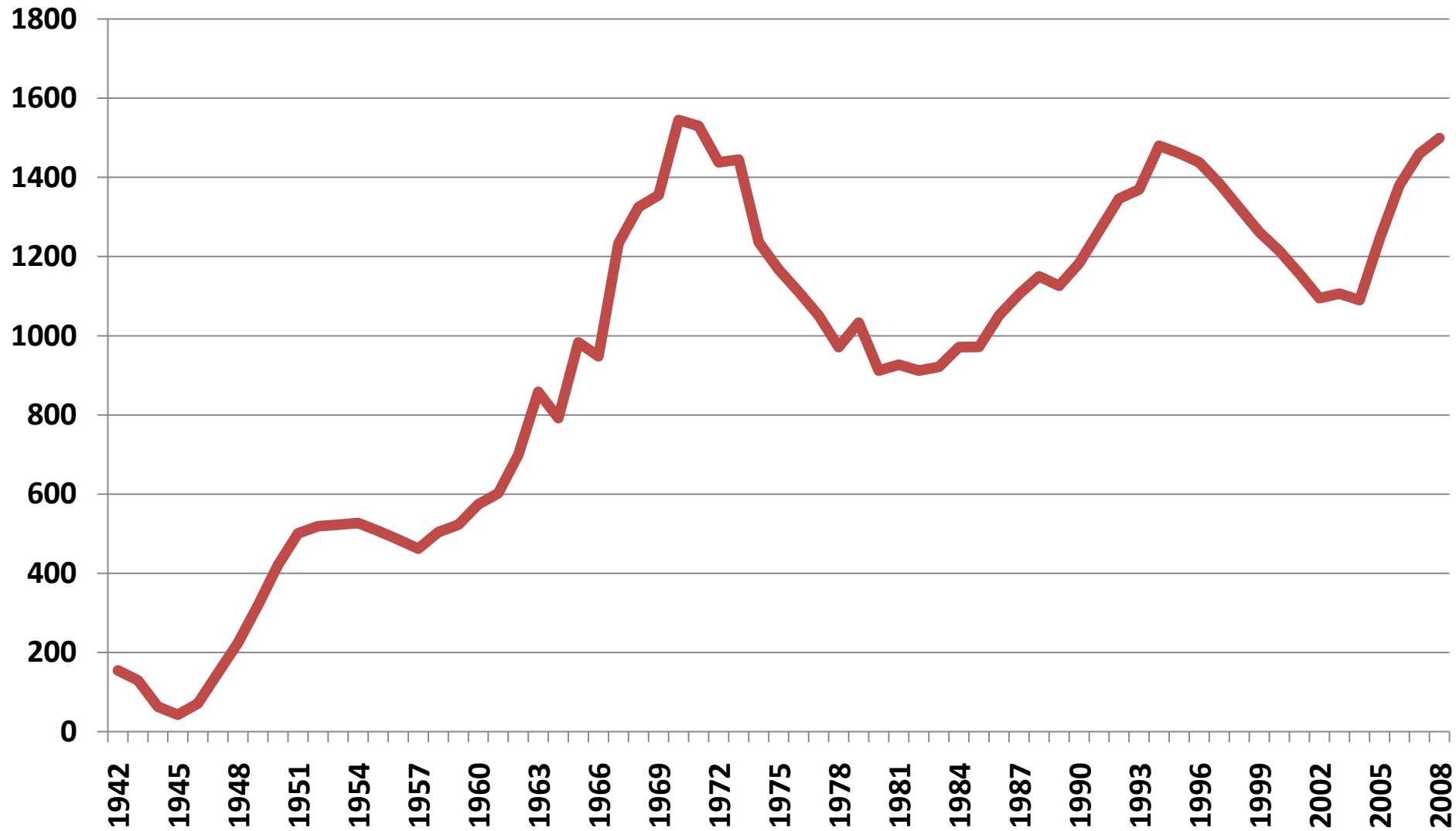
Rachel Ivie

Outline

- Physics PhDs
 - Number of degrees
 - Initial employment outcomes
 - Preliminary data from new PhD+10 survey about knowledge and skills used in workforce
- Physics masters
 - Number of exiting masters
 - Initial employment outcomes

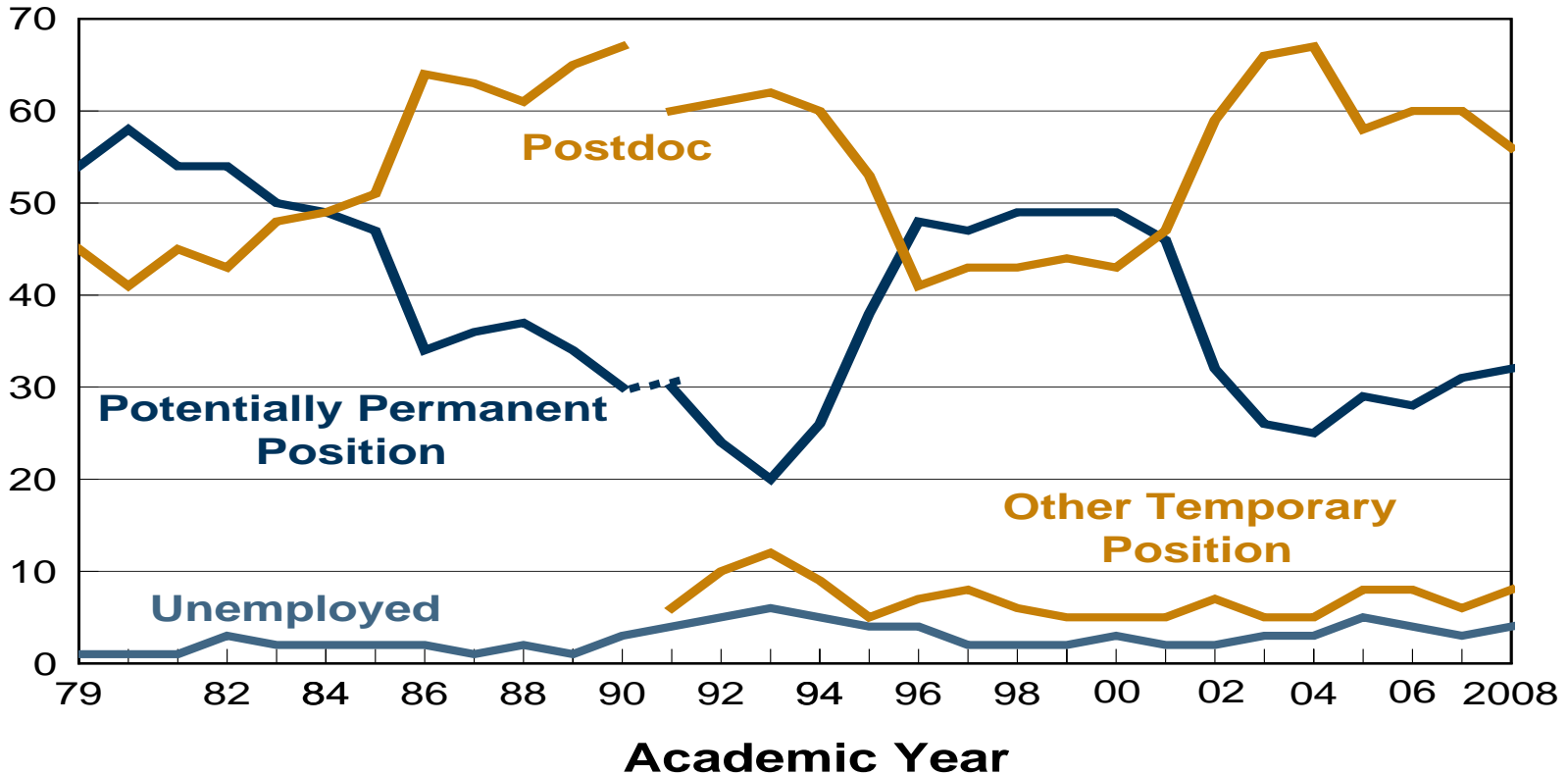
PHYSICS PhDs IN THE WORKPLACE

Number of Physics PhDs in US



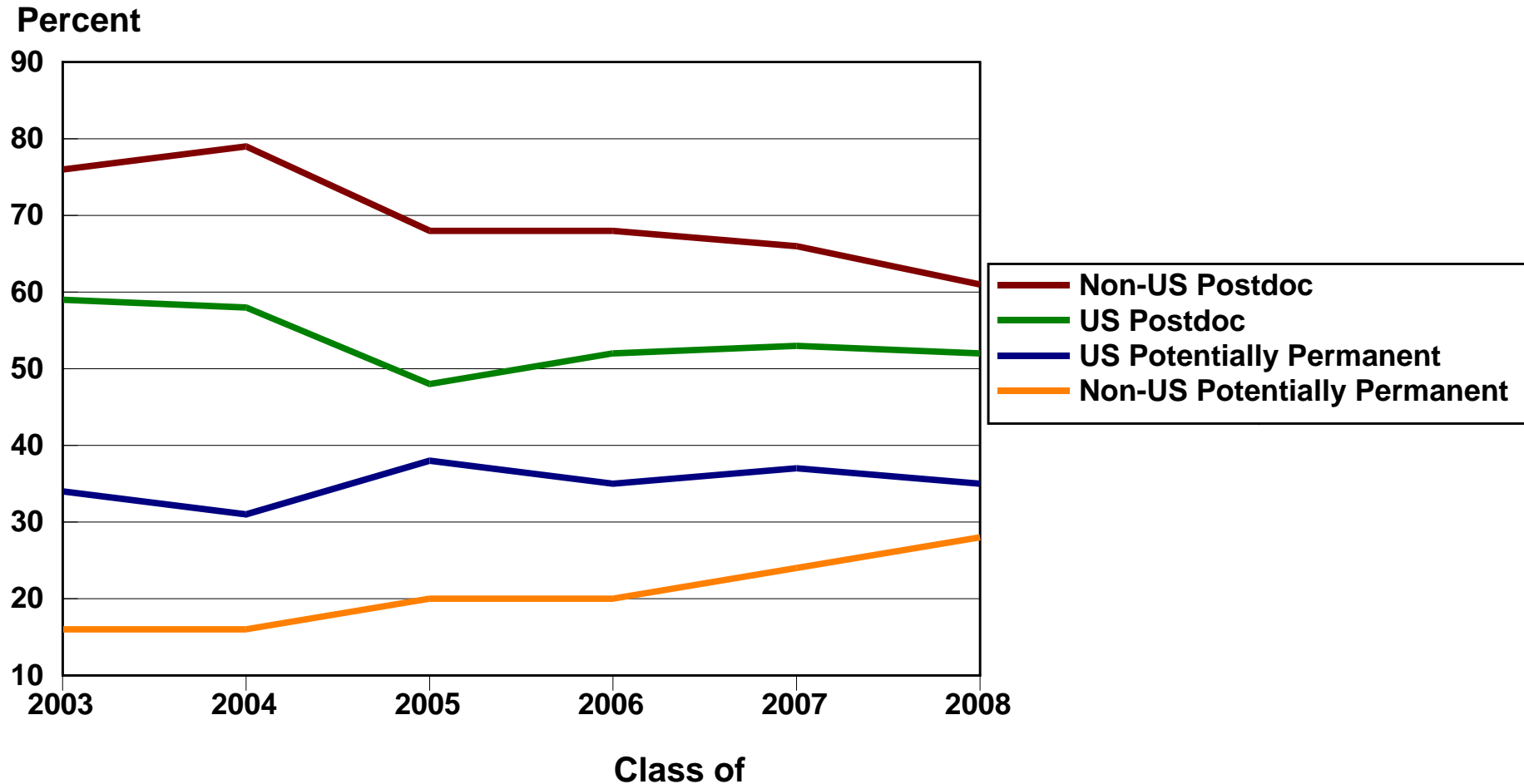
Initial employment of physics PhDs

Percent



In 1991, the survey questionnaire was changed to measure "other temporary" employment as a separate category.

Initial employment of physics PhDs by citizenship



Initial employment sectors of physics PhDs in potentially permanent first jobs, classes of 2007 & 2008.

	Percentage
College or University*	27
Private Sector	60
Government	9
Nonprofit	2
Other	2
* Includes University Affiliated Research Institutes	

Percentage of employed physics PhDs, classes of 2007 and 2008, who agree with the following statements about their first job

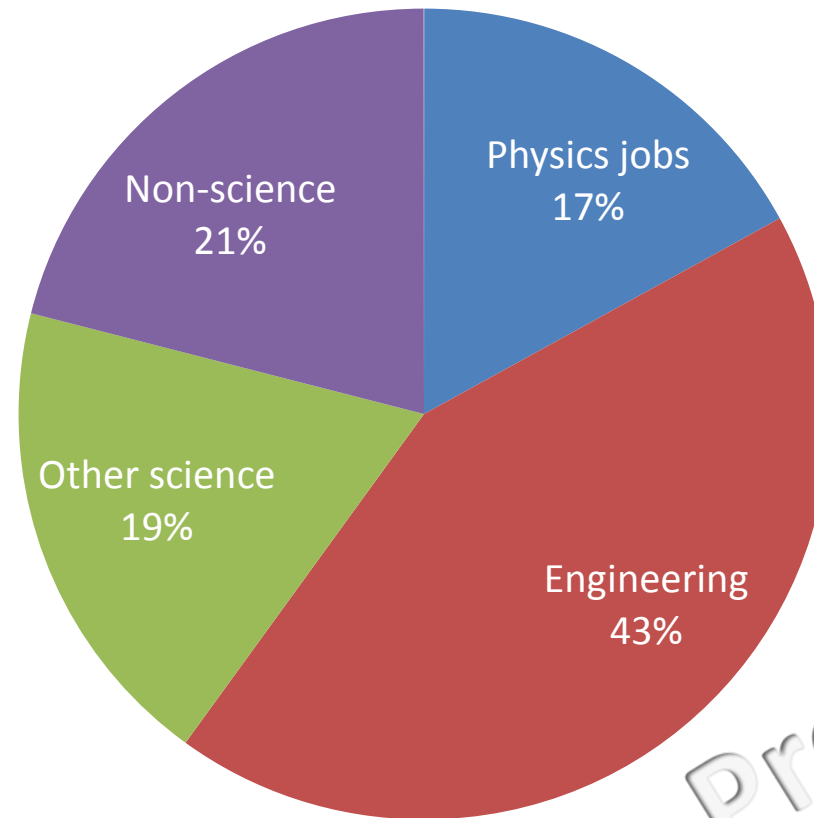
	College or Univ.	Private Sector	Gov.
A physics PhD is an appropriate background for this position.	96	81	77
This position is professionally challenging.	80	70	70
I am satisfied with this position.	93	80	87
I consider myself underemployed in this position.	21	33	30

Note: The percentages represent the two positive responses from a 4-point scale. These respondents are employed in potentially permanent positions.

Preliminary data from PhD+10 survey

- Collected from physics doctorates from classes of 1996, 1997, 2000 and 2001
- Currently have 1,389 respondents
- 1,014 are in the US
- 277 work in the US in industry jobs.

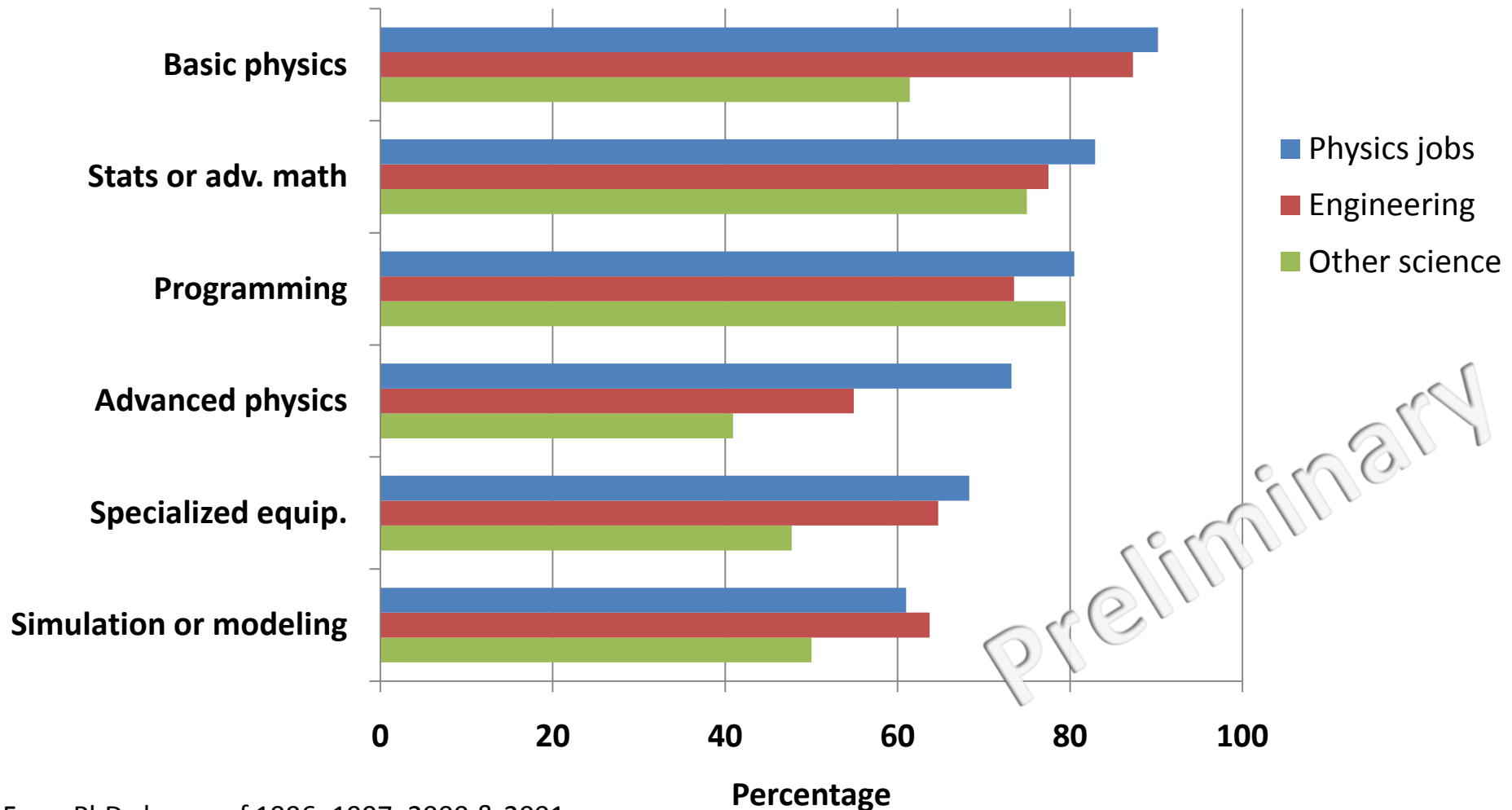
Percentage of industrially employed PhD physicists by field of job, ~10 years after degree



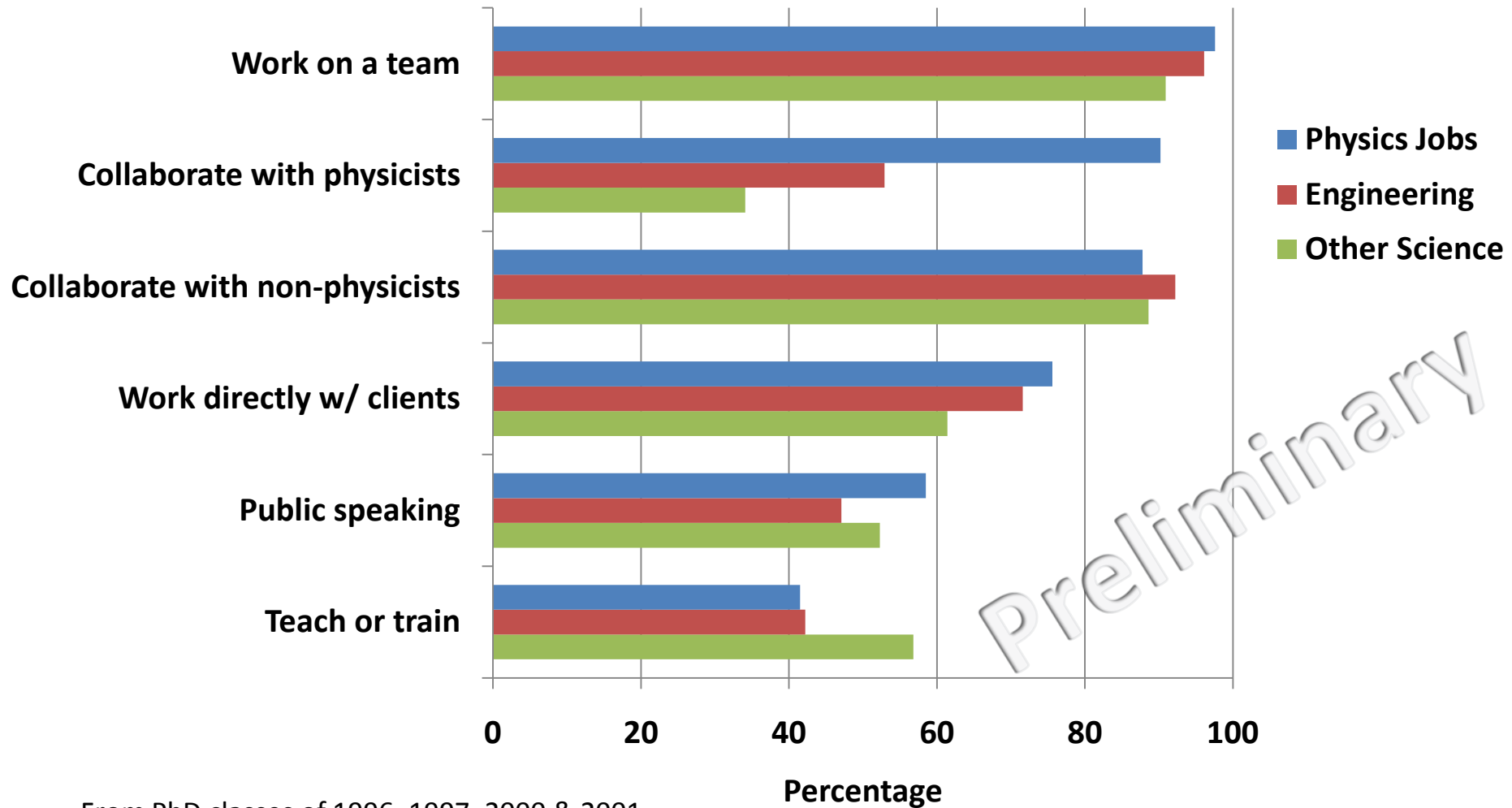
Preliminary

From PhD classes of 1996, 1997, 2000 & 2001

1. Industrially employed physics PhDs who do the following at least monthly, ~10 years after degree

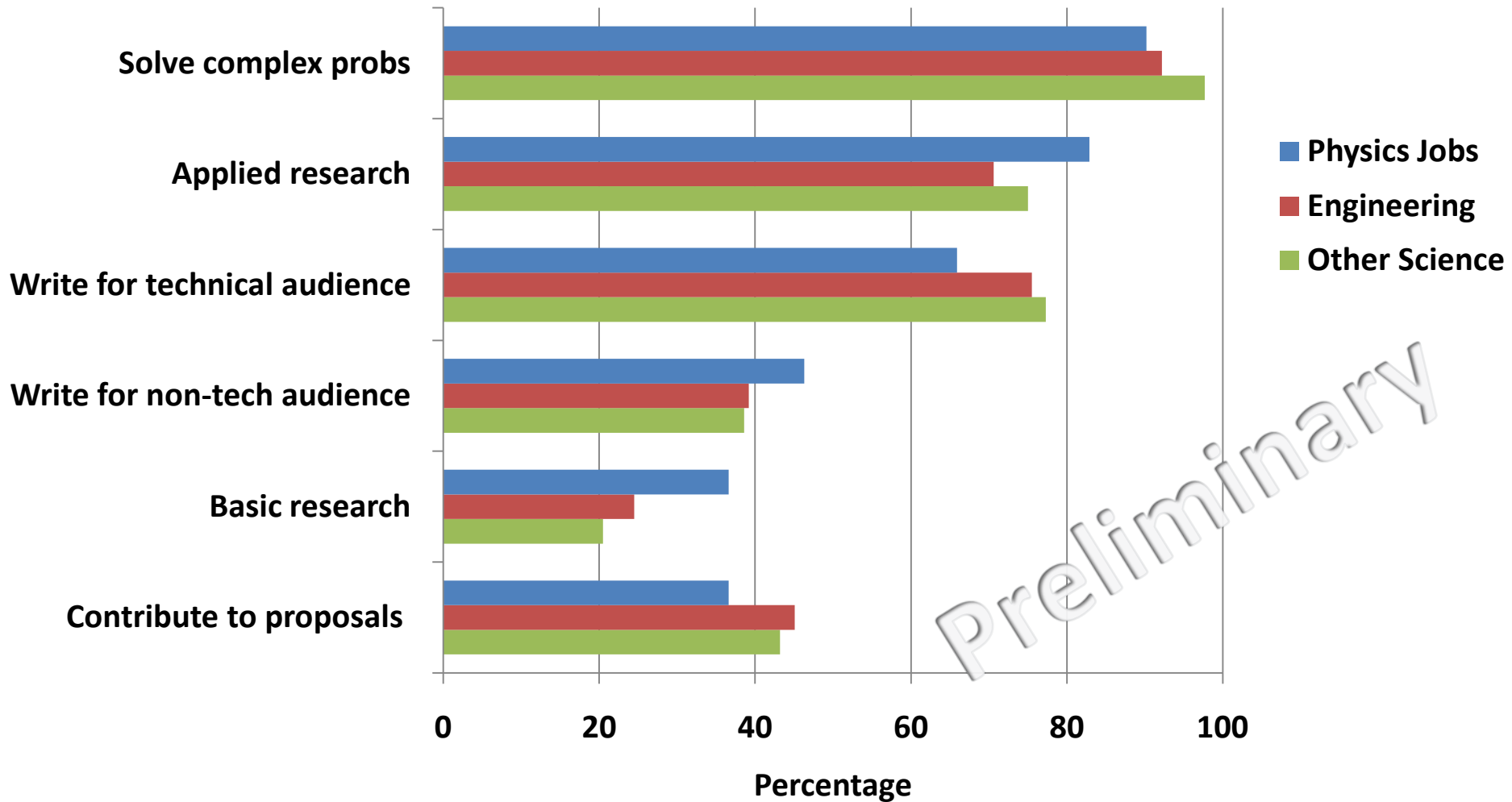


2. Industrially employed physics PhDs who do the following at least monthly, ~ 10 years after degree



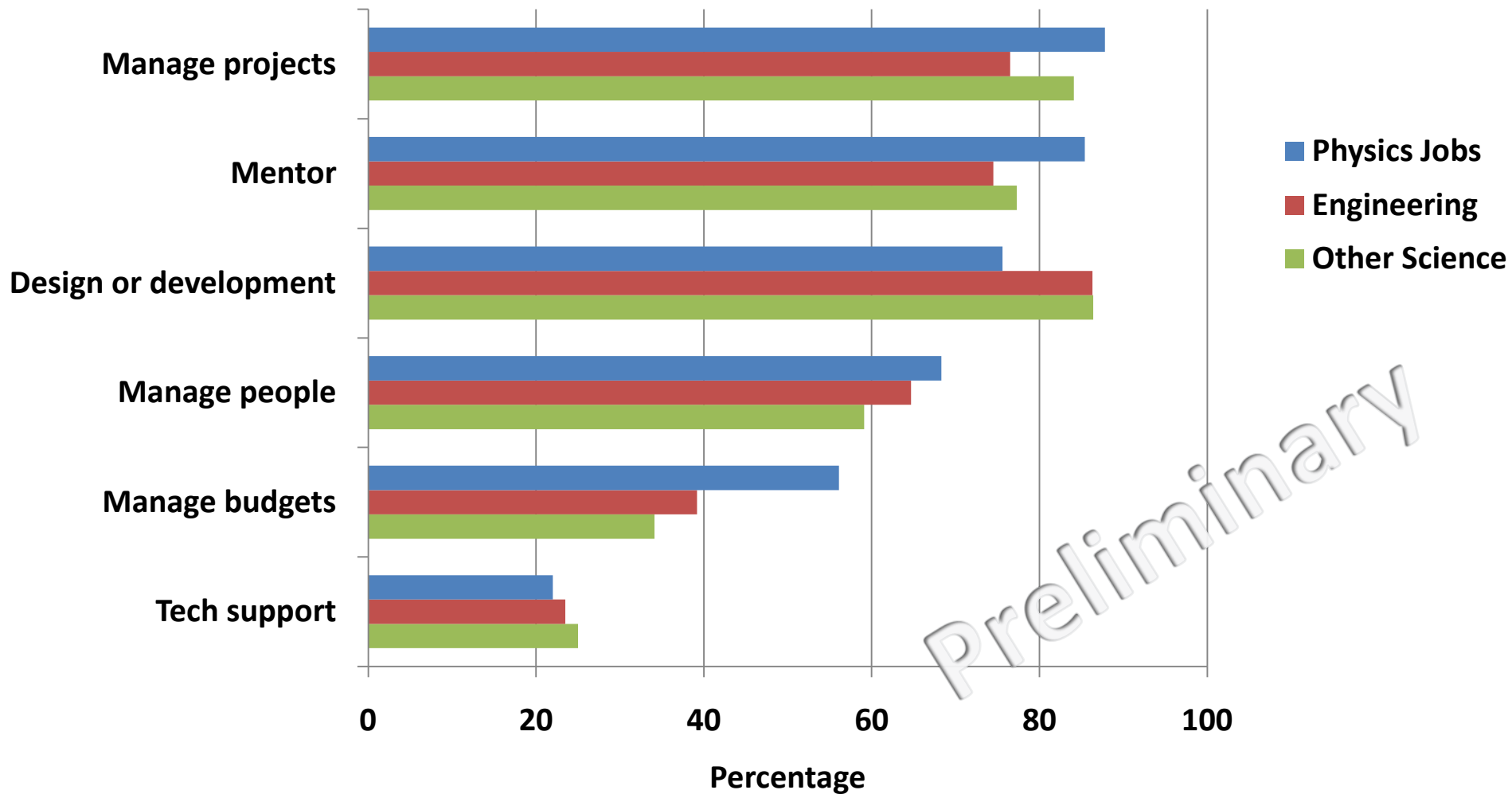
From PhD classes of 1996, 1997, 2000 & 2001

3. Industrially employed physics PhDs who do the following at least monthly, ~10 years after degree



From PhD classes of 1996, 1997, 2000 & 2001

4. Industrially employed physics PhDs who do the following at least monthly, ~10 years after degree

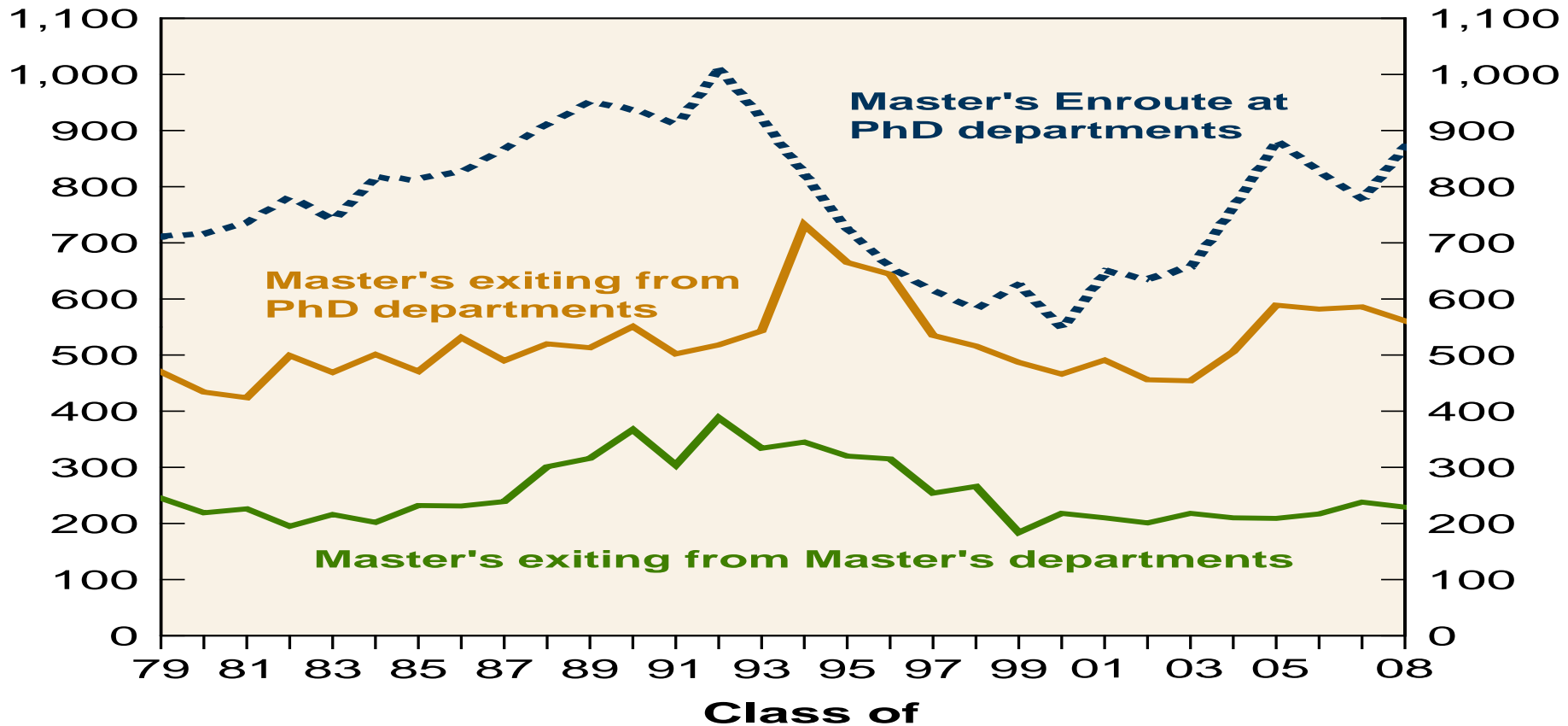


From PhD classes of 1996, 1997, 2000 & 2001

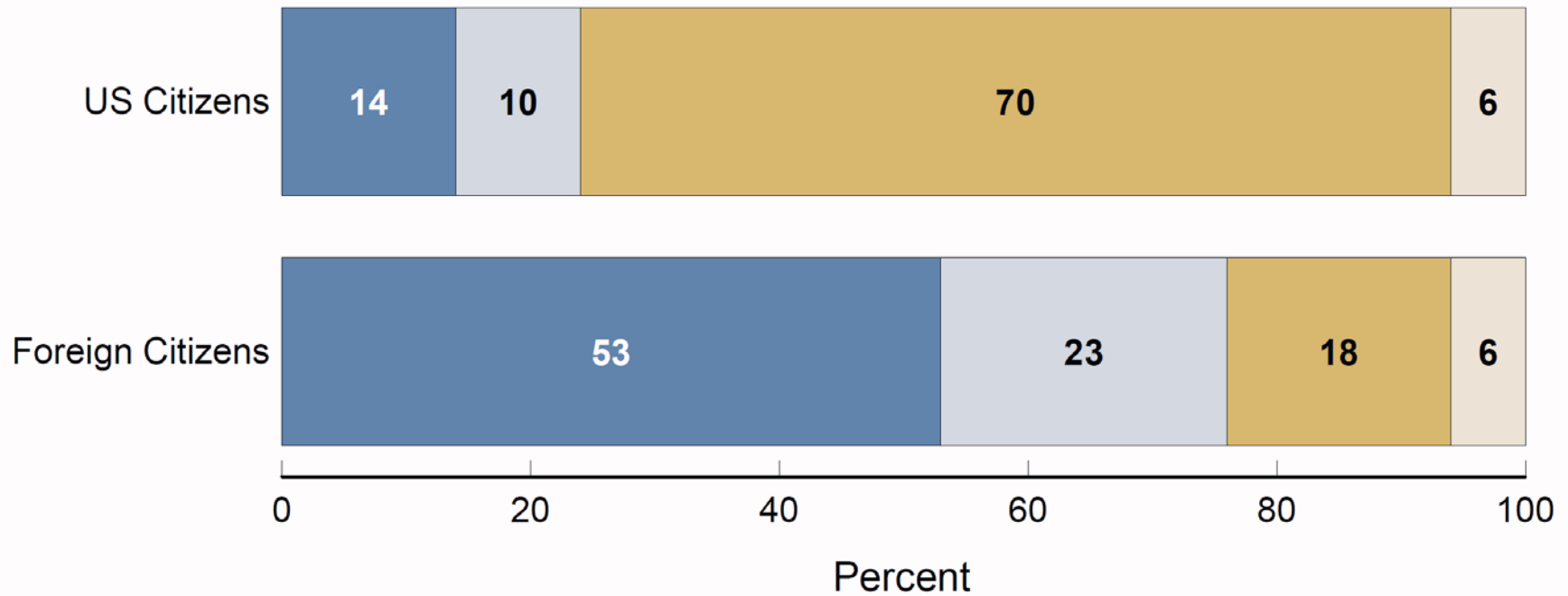
PHYSICS MASTERS IN THE WORKPLACE

Master's degrees conferred by type of degree and department

Number



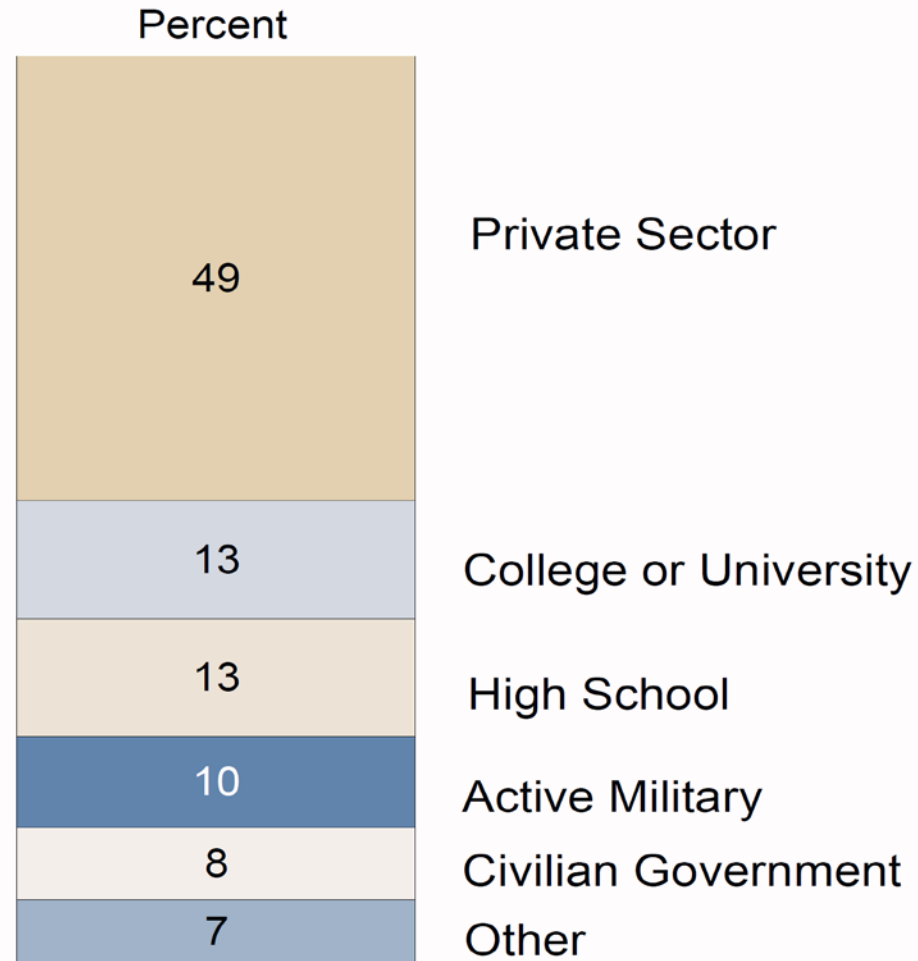
One year later: Status of exiting master's by citizenship, classes of 2005 & 2006.



■ Graduate Study, Physics or Astronomy* ■ Graduate Study, Other Fields ■ Employment ■ Unemployment

* At a different department from the one where they received their master's degree.

Sector of initial employment for full-time employed physics masters, classes of 2005-06



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For more information

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