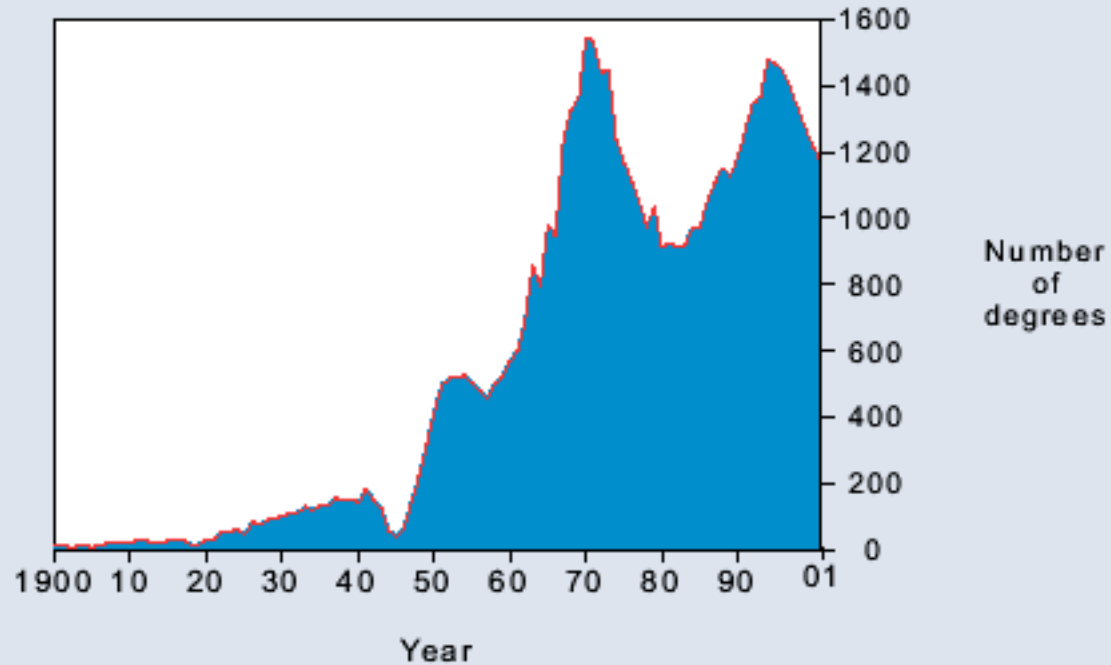


# PFPPF- Postocs 4/27/05

## Features / Themes of post-doc:

- Long history & evolving....
- (designed to be) transitional
  - RA
  - Fellowship
- Ill-defined: scale(identifying), scope, funding, pay resources,
- Most significant route into academia
- Increasingly used in gov't and industry...

**Number of physics PhDs conferred in the United States,  
1900 to 2001.**

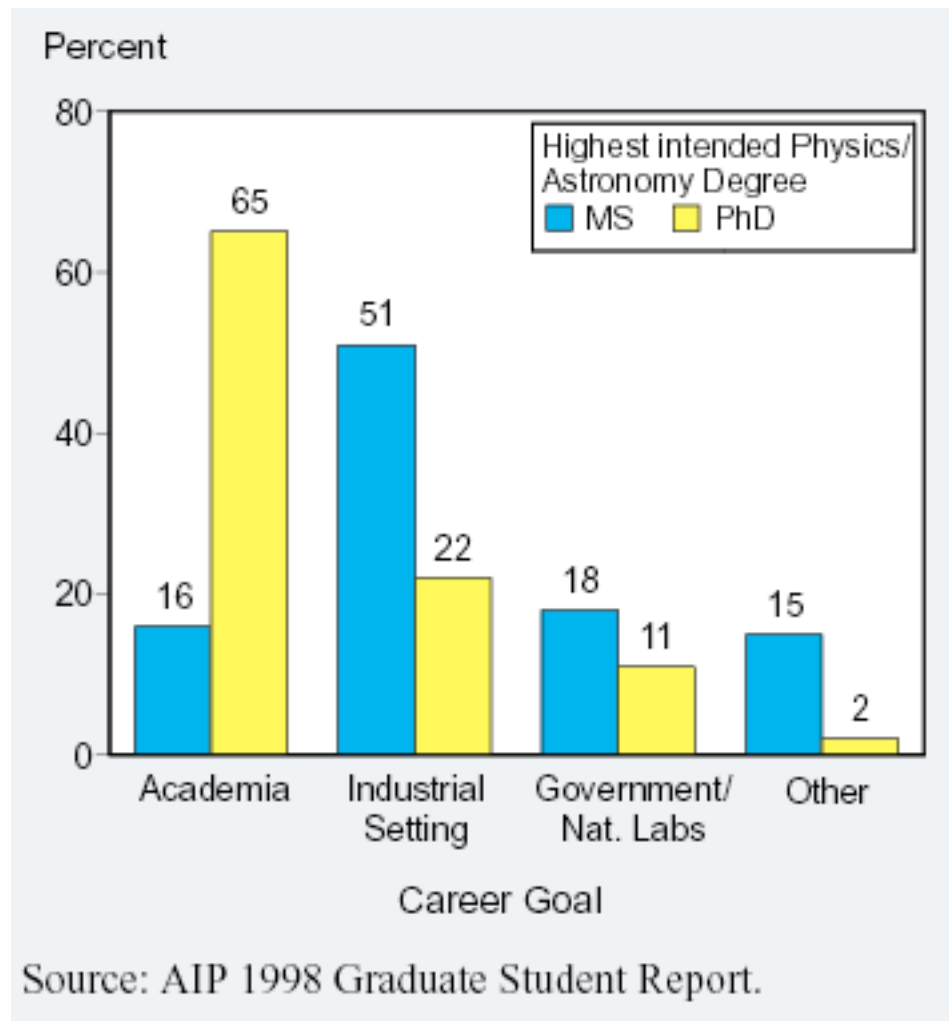


Sources: ACE (1900-1919), NAS (1920-1961), AIP (1962-2001)  
AIP Statistical Research Center, Enrollments and Degrees Report.

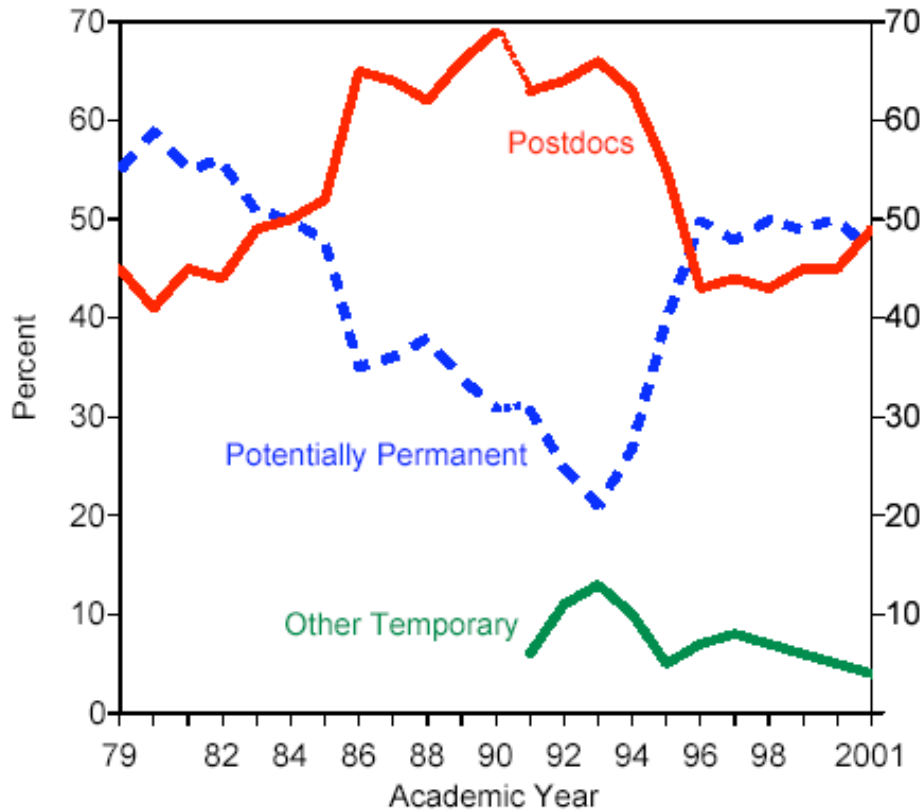
Total grad student population at CU Boulder: 205  
Graduations per year  $\approx$  30?

# Career goals by intended highest degree

1st year US physics & astronomy grads students, 1997-98.

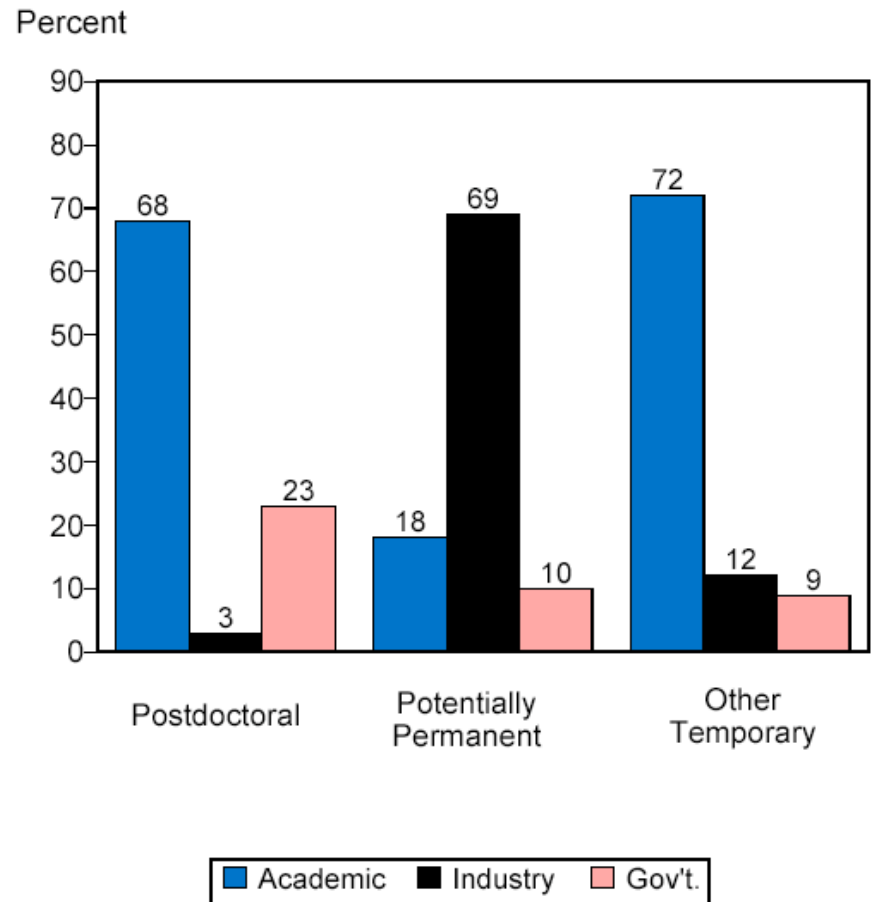


**Trend Data on the Type of US Employment Secured by Physics PhDs in the Winter Following Their Degree, 1979-2001**



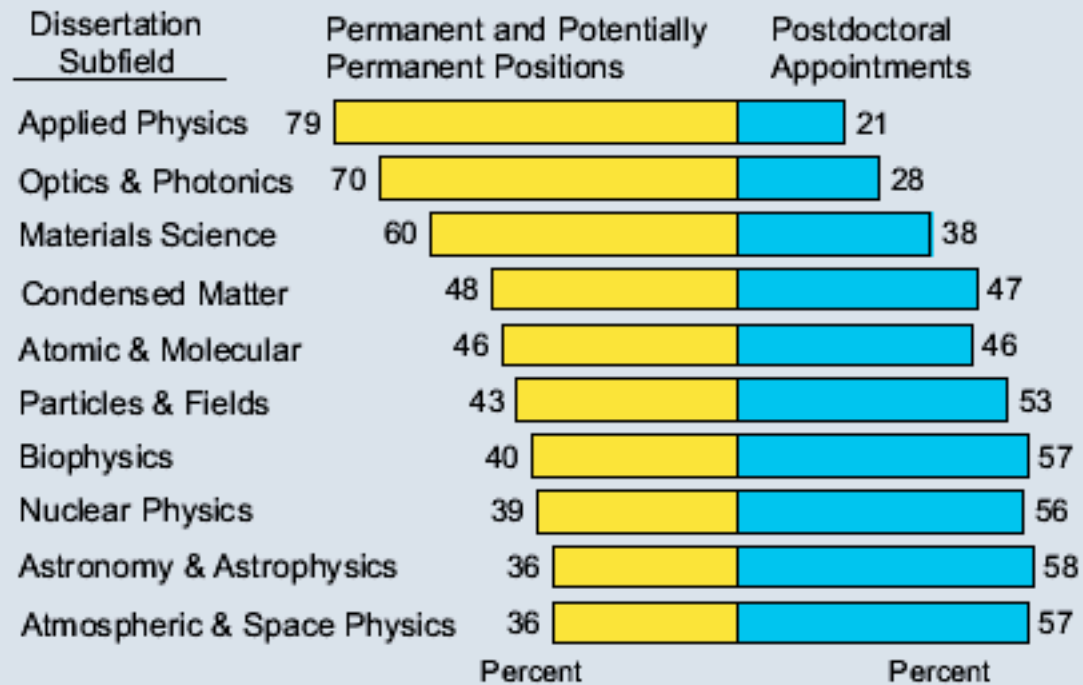
AIP Statistical Research Center, Initial Employment Survey

**Employment Sector for Physics PhDs, Classes of 2000 & 2001.**



AIP Statistical Research Center, Initial Employment Survey

**Figure 3. Initial employment of physics PhDs by subfield of dissertation, classes of 2000 & 2001.**



Rows do not add to 100% since they do not include PhDs who accepted other temporary positions.

**Table 1. Departments by highest physics degree offered, academic year 2000-2001.**

	<b>Number of Depts.</b>	<b>Percent of Depts.</b>
Bachelor's-granting	514	67
Master's-granting	72	9
PhD-granting	182	24
<b>Total</b>	<b>768</b>	<b>100%</b>

AIP Statistical Research Center, Enrollments and Degrees Report.

**Table 4. Estimated Number of Physics Faculty Hired, 2002**

	Type of Department				Total
	PhD	Master's	Bachelor's		
All Faculty	274	40% 71	10% 342	50%	687
Tenured and Tenure-Track	197	56% 32	9% 124	35%	353
Percent of Depts. Hiring any Faculty	72	59	45		53
Percent of Depts. Hiring Tenured and Tenure-Track	60	34	20		31

AIP Statistical Research Center: 2002 AWF Survey

<b>Table 13. Previous Positions of New Physics Faculty, 2002*</b>			
<b>Type of Department</b>			
	<b>PhD (%)</b>	<b>Bachelor's (%)</b>	
Postdoc	47	Postdoc	23
Research Scientist	29	Tenured or Tenure-Track Prof.	23
Tenured or Tenure-Track Prof.	20	Visiting Prof.	15

AIP Statistical Research Center: 2002 AWF Survey

\*Includes permanent non-tenured faculty at schools without tenure, and tenured and tenure-track faculty at other schools.

<b>Table 14. Backgrounds of New Physics Faculty, 2002*</b>		
	<b>Type of Department</b>	
	<b>PhD (%)</b>	<b>Bach (%)</b>
Earned PhD in US within last 5 years	34	55
Earned PhD outside US, any year	30	13
Earned PhD in US > 5 years ago		
Previous Employer		
US Academic Institution	29	29
Industry, National Lab, Other	7	3

AIP Statistical Research Center: 2002 AWF Survey

\*Includes permanent non-tenured faculty at schools without tenure, and tenured and tenure-track faculty at other schools.