



Nuclear Physics Program Statistical Characteristics of University Grants

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Overview for FY 2003

- Total funding for 182 university grants (excluding Bates):
 - \$53.4M operating
 - 1.4M capital equipment
 - \$54.8M ~43% of all Nuclear Physics research

Bates operating and research: \$15.4M

- Grants support:
 - 274 faculty (~1.5 per grant, ~\$200K per faculty researcher)
 - 84 research staff
 - 238 temporary staff (postdoctoral associates and visiting scientists)
 - 380 graduate students (79 PhDs awarded during last year)
- 80% of experimental postdoctoral associates and graduate students work at DOE user facilities.
- Outstanding Junior Investigator (OJI) program, begun in FY 2000, supports ~5 new untenured faculty/year.



Grant Distribution by Subfield

Nuclear Physics University Grants

	Total Awards* (M\$)	Grants (Tasks)	Average Grant (K\$)	Faculty[†]	Research Staff[†]	Postdoctoral Assoc. & Visiting Sci.[†]	Graduate Students[†]
Medium Energy**	12.9	47	274	75	25	66	108
Heavy Ion	12.2	33	370	53	31	53	84
Low Energy**	13.2	42	314	58	11	49	91
Theory***	11.6	58	200	86	16	66	96
Nuclear Data	0.4	5	81	2	1	4	1
Total	50.3	185	299	274	84	238	380

[†] Supported in part by DOE Nuclear Physics

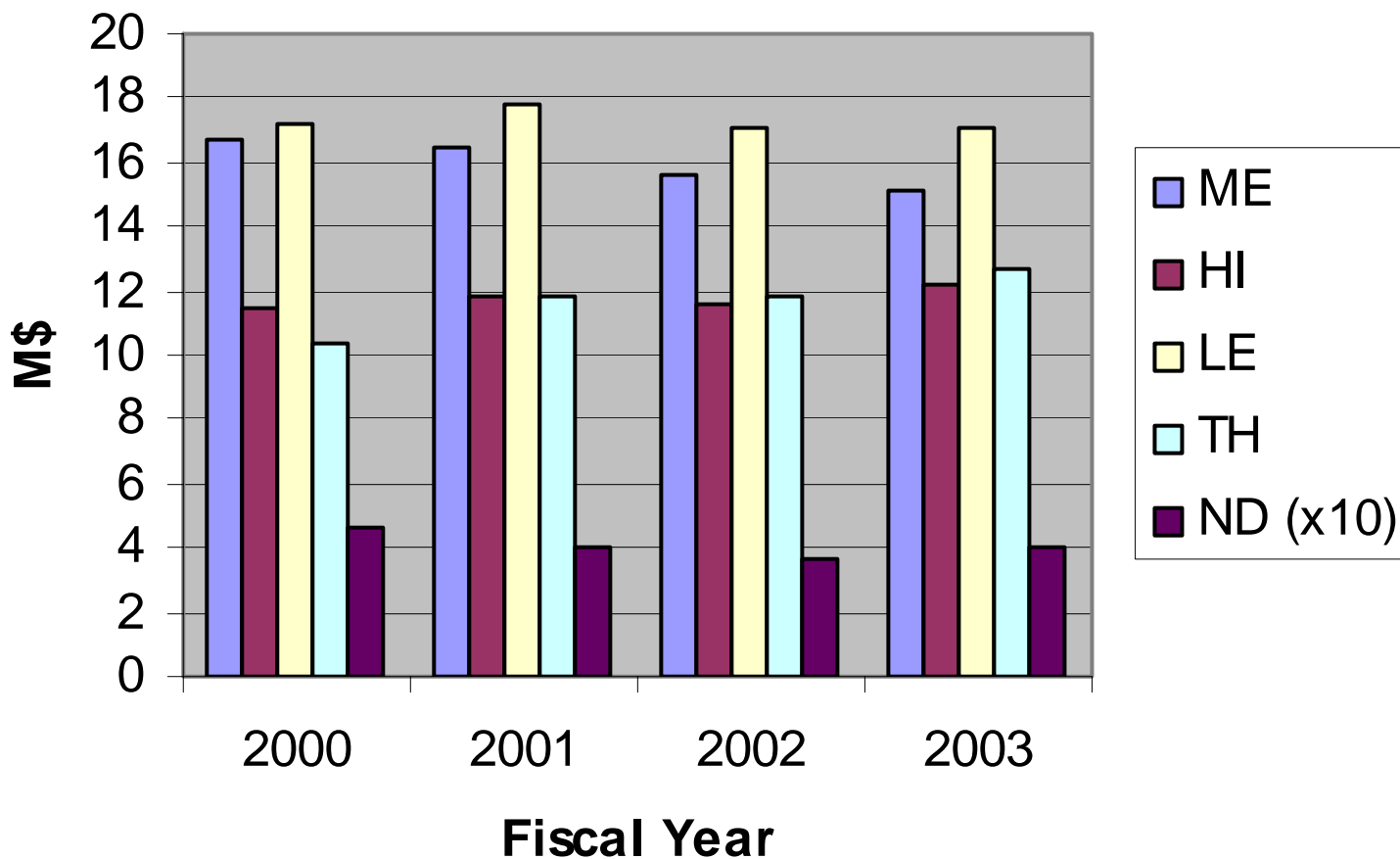
* Includes capital equipment and RIA R&D

** Excludes support for Bates research and operation (\$15.4M) and accelerator operations at Texas A&M, TUNL, Univ. of Washington, & Yale (\$4.5M)

*** Excludes SciDAC



Support for University Grants by Subfield





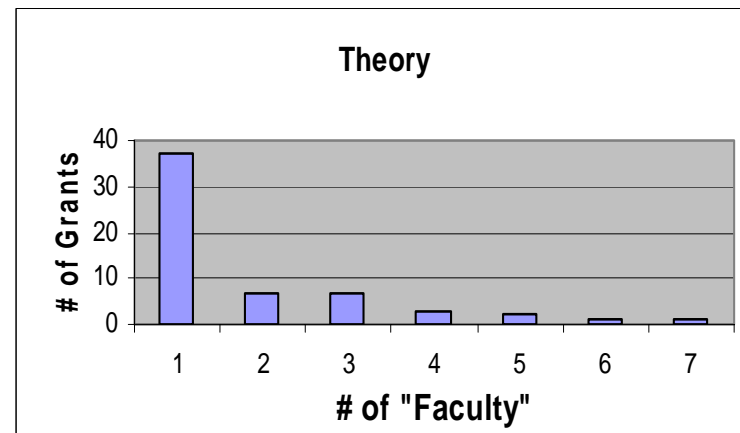
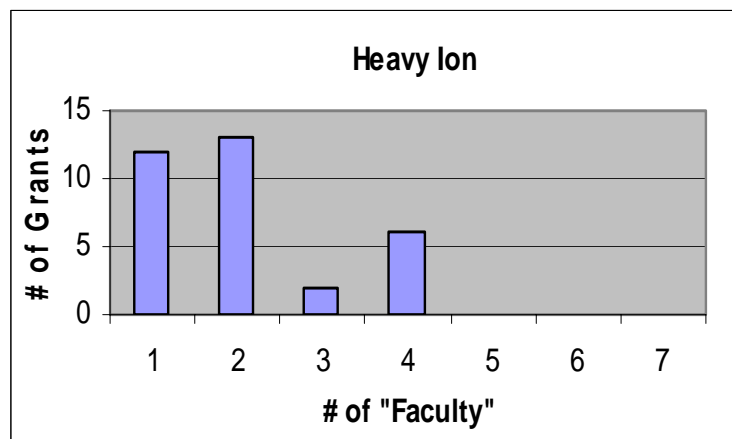
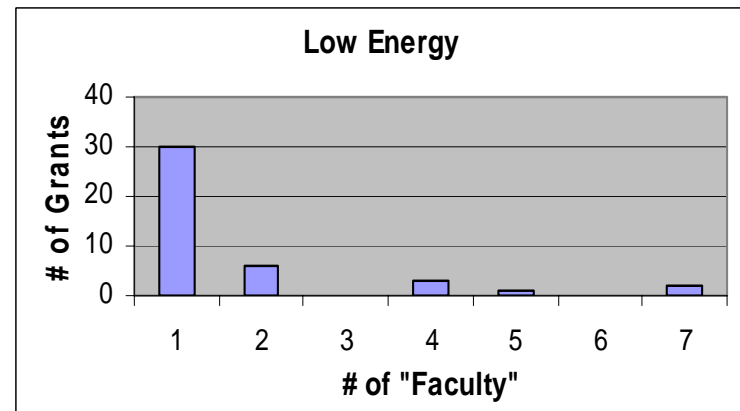
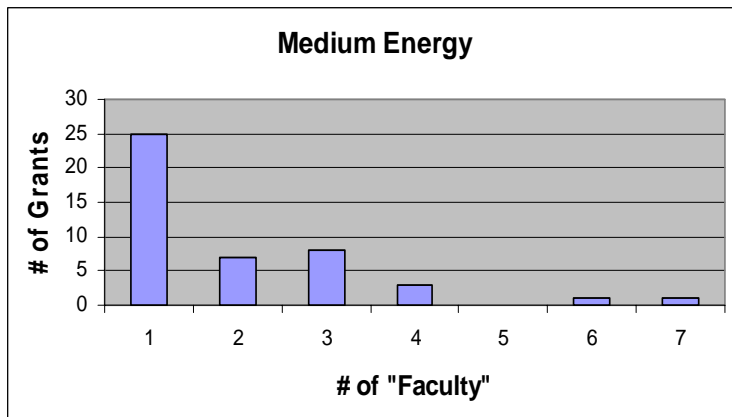
Statistical information about Grants

- **The next 3 frames provide statistical information regarding the grants for each of the four subprograms.**
 - The first frame shows the distribution of the number of “faculty” per grant, in which “faculty” includes teaching faculty and senior research scientists that supervise graduate students.
 - The second frame shows the distribution of grant sizes in each of the four subprograms. The distributions are significantly different in each subprogram.
 - The third frame shows the distributions of grant size per supported “faculty” for each subprogram. These distributions are similar for the three experimental subprograms.



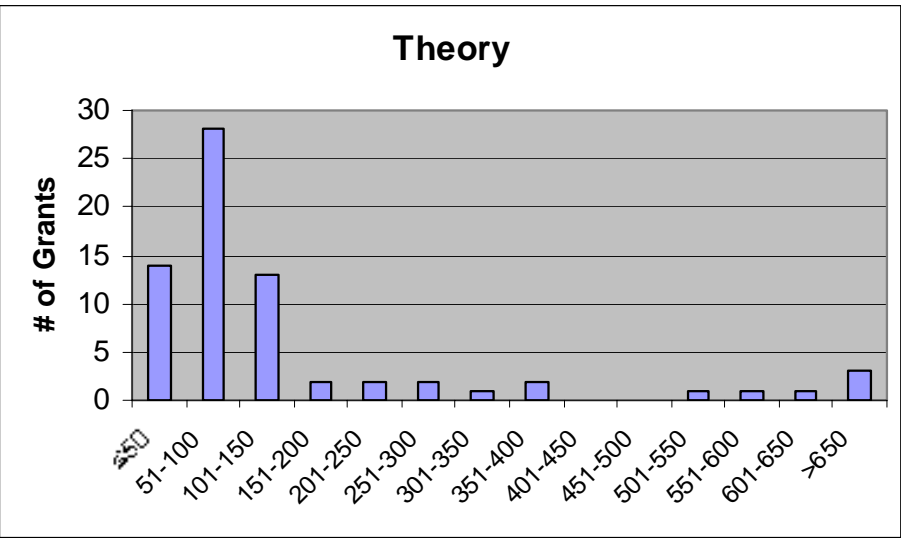
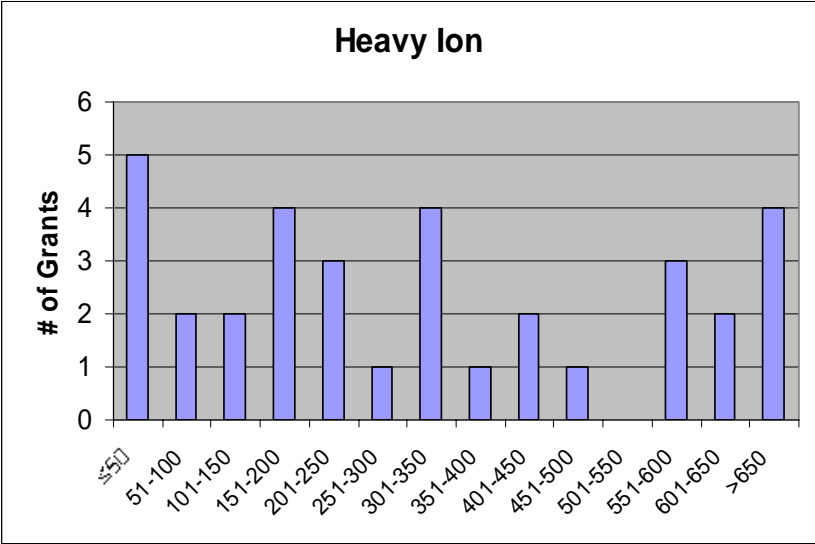
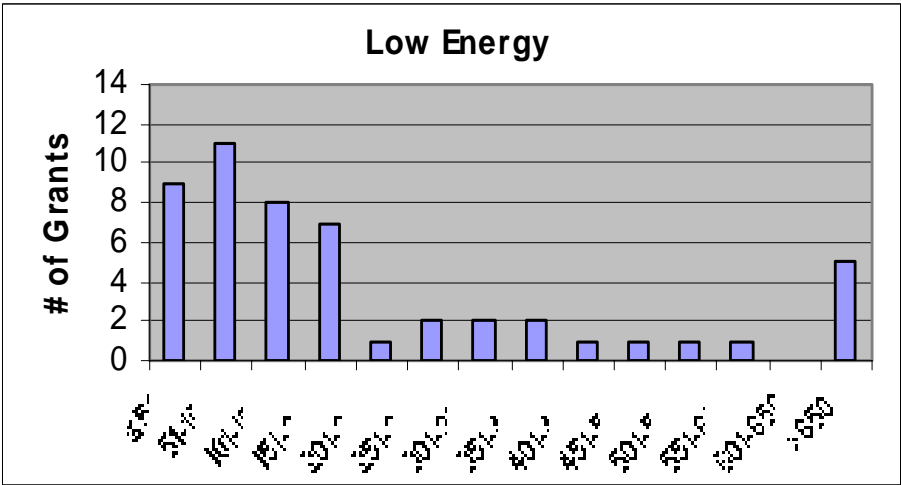
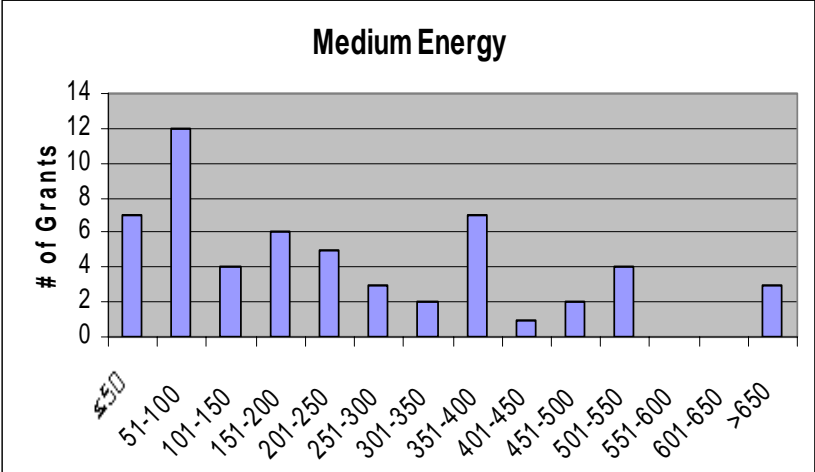
Number of “Faculty” per Grant

“Faculty” includes Research Faculty and Senior Research Scientists who supervise students.



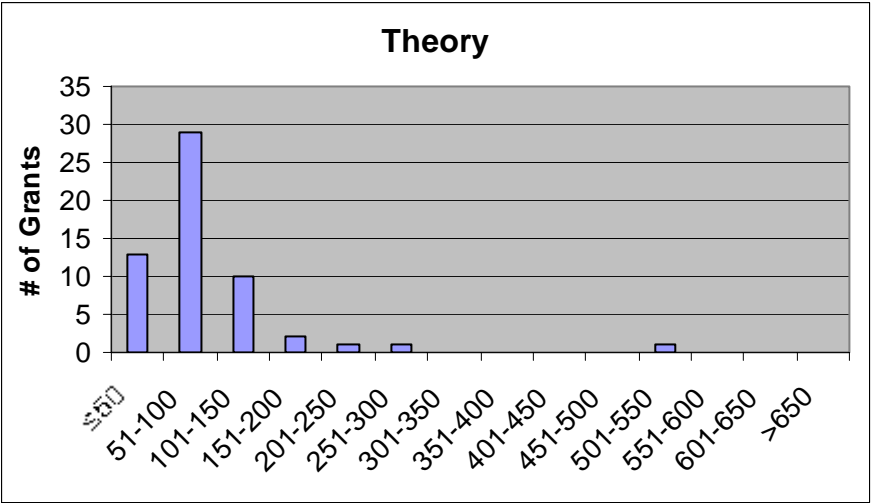
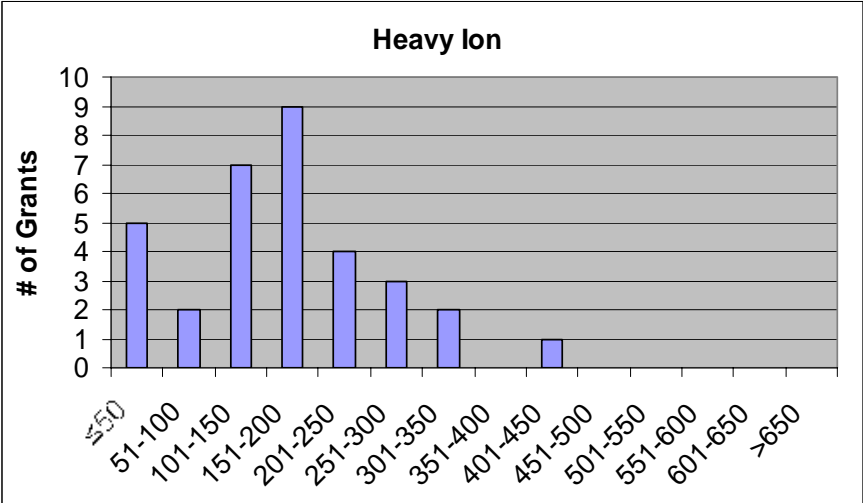
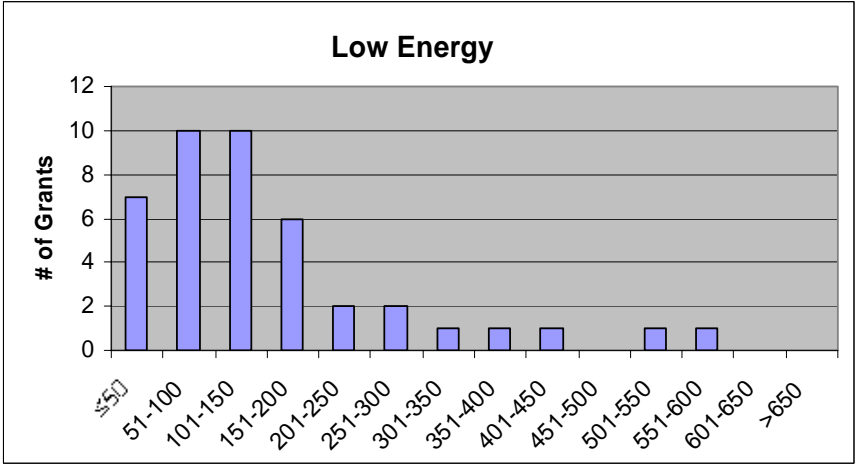
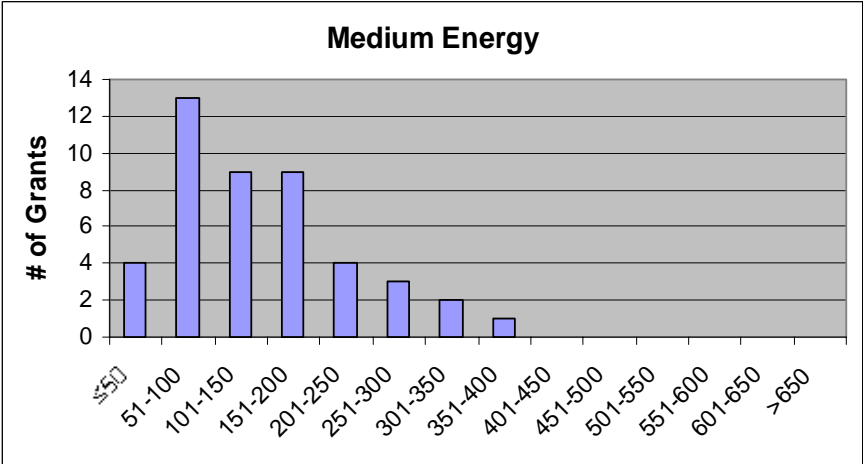


Grant Size (k\$)





Grant Size (k\$) per “Faculty”





Conclusions

- Each of the four subfields have about the same size university program (\$12M-\$13M).
- Although the number of grants and PIs differ significantly in each subfield, the grant size per “faculty” is similar for the three experimental subfields and somewhat smaller for Theory. This is due in part to larger travel budgets for users travelling to perform experiments at user facilities.
- The Theory subfield funding is growing in response to the NSAC recommendation.