U.S. Department of Energy

Office of Science

Written 4/06

DOE High Energy Physics
FY05 DOE-funded FTE's in
Physics Research - University Program

Program	#faculty (FY05 - FY04)	research Scientists	Postdoc	#grad students	# techs, engineers	Total
Theory	214.5 (+2)	2.2 (+1)	101.4 (+5)	111.8 (-8)	--	*430*
Experiments – total	313.5 (-9)	98.5 (+5)	264.1 (-11)	353.3 (-15)	12.3	*1042*
Total for Program	*528*	*101*	*365*	*465*	*12*	*1472*
Experiments – Accelerator based	270.1 (-6)	81.1 (+4)	236.1 (-6)	306.2 (-14)	11.4	
Experiments – Non-Accel. based	43.3 (-3)	17.4 (--)	27.9 (-4)	47.0 (-1)	0.9	

(Disclaimer: all #'s probably good to 5%)

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	FY05	FY04	FY03	FY01
Experimental				
Total Base funding ($K)	72,911	73,800	72,600	72,600
# faculty FTEs	313.5	322.3	322	320.1
Average base/faculty ($K)	232	229	225	227
Median base/faculty	173	180	180	--
Theoretical				
Total Base funding ($K)	23,176	22,800	23,200	23,500
# faculty FTEs	214.5	212.4	215.2	224.8
Average base/faculty	108	107	108	104
Median base/faculty	90	85	90	--

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Program	#faculty	research scientists	postdoc	#grad students	# techs, engineers
Theory	214.5	2.2	101.4	111.8	
Experiments – Accelerator based	270.1	81.1	236.1	306.2	11.4
Experiments – Non-Accelerator based	43.3	17.4	27.9	47.0	0.9
FNAL – Tevatron – CDF	44.5	13.2	56.8	65.6	2.0
- Tevatron - Dzero	35.9	5.5	34.0	47.6	1.2
-- neutrinos	26.6	4.9	16.8	25.8	--
-- fixed target + other	10.0	0.5	7.0	12.0	--
SLAC – BaBar	45.0	8.8	42.8	72.8	0.8
BNL – fixed target + RHIC	2.5	4.4	1.9	0.9	0.1
Cornell - CLEO	9.4	1.0	7.7	11.4	--
JLAB – Radphi, GlueX	0.4	--	1.1	0.2	0.5

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Program	#faculty	Res. Scien	Postdoc	Students	# Eng/tech
CERN – ATLAS	27.8	16.3	15.2	12.6	2.8
CERN – CMS	33.9	21.8	29.8	20.0	3.4
CERN – OPAL, NA48, NOMAD	0.8	--	0.9	1.0	--
Japan – K2K	2.8	1.6	3.2	4.0	--
Japan – Belle, E391	6.1	1.0	9.0	13.2	--
Other – BES, Zeus, KLOE	4.1	--	3.2	6.0	0.2
Accelerator R&D incl Mu-Coll	3.4	--	2.2	0.7	--
Detector R&D	3.6	0.7	2.2	5.3	0.3
Linear Collider R&D Phys & Det.	8.0	0.3	2.0	4.3	--
Future – accel & non-accel	5.4	0.9	0.2	2.9	--
Astro/Cosmo – space	10.3	9.8	3.3	7.0	--
Astro/Cosmo – ground, undergnd	20.7	4.6	14.3	23.2	0.2
Neutrino ground, underground	10.7	1.9	10.0	15.5	0.7

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Projects/Experiments – includes in tables

FNAL – neutrinos: NuTeV, MiniBooNE, MINOS, DONUT, Minerva
FNAL – fixed target, other: BTeV, CKM, Focus, HyperCP, KTeV, Selex, E760/835, Electron Cooling

BNL – fixed target + RHIC: g-2, MECO/Kopio, E852, PHOBOS

JLab: GlueX, Radphi

Astrophysics/Cosmology – space: AMS, GLAST, SNAP

Astrophysics/Cosmology – ground, underground: Pierre Auger, Whipple, VERITAS, DES, QUEST, LSST, CDMS, AXION, ZEPLIN

Neutrino – ground, underground: EXO, XENON, SNO, ANITA, Icarus, NEMO, KamLAND, SuperK

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We counted FTE scientists working on each project that were funded by DOE-HEP University Program

How people are counted
- people are subdivided by % time on each project
- academic faculty funded for 2 months summer salary are counted as 1 FTE (1 mo. = ½ FTE) since full research time is funded
-postdocs/research scientists/grad students are counted as 1 FTE if they are funded full time for the whole year – other amounts are pro-rated

Who is in the count:
- people funded by DOE University Program, incl. OJI & ADR, LCDRD are counted
- "faculty" are teaching faculty that are supported by the university for 9 months
-"research scientist" is adjunct faculty, research faculty, visitors, research scientist, staff scientist, etc

Who is NOT in the count:
• beginning grad students on TA's, University or other funds are not counted
• postdocs/research scientists on startup, university or other funds
• faculty not funded on the grant, e.g. on startup or emeritus
• people (incl. scientists) supported on project funds are not counted
• computer professionals, administrative support personnel

Caveats and Other Things to Remember:
- Obtained information from proposal, program manager's notes, budget sheets → values aren't exact!!!
- Reflects what the groups planned to work on when they were funded – note that different grants come due at different times of the year!
- We could fund ½ postdoc on a particular experiment, but they can't find one and instead use it to fund a graduate student and travel instead, and it isn't accurately reflected in this study
- People working on X different projects get split X ways (if we know % on each, then can use it – otherwise divide equally or make estimate)