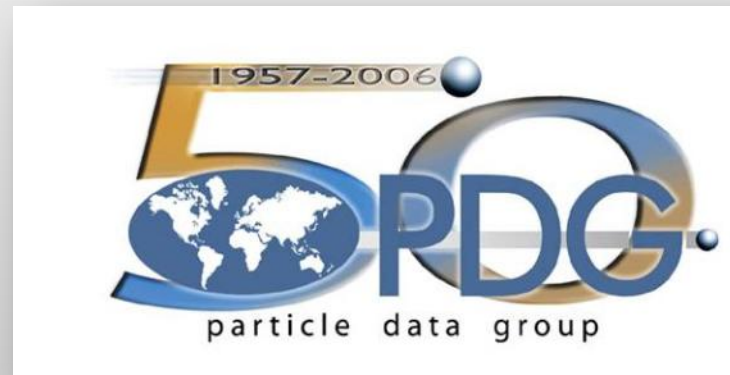
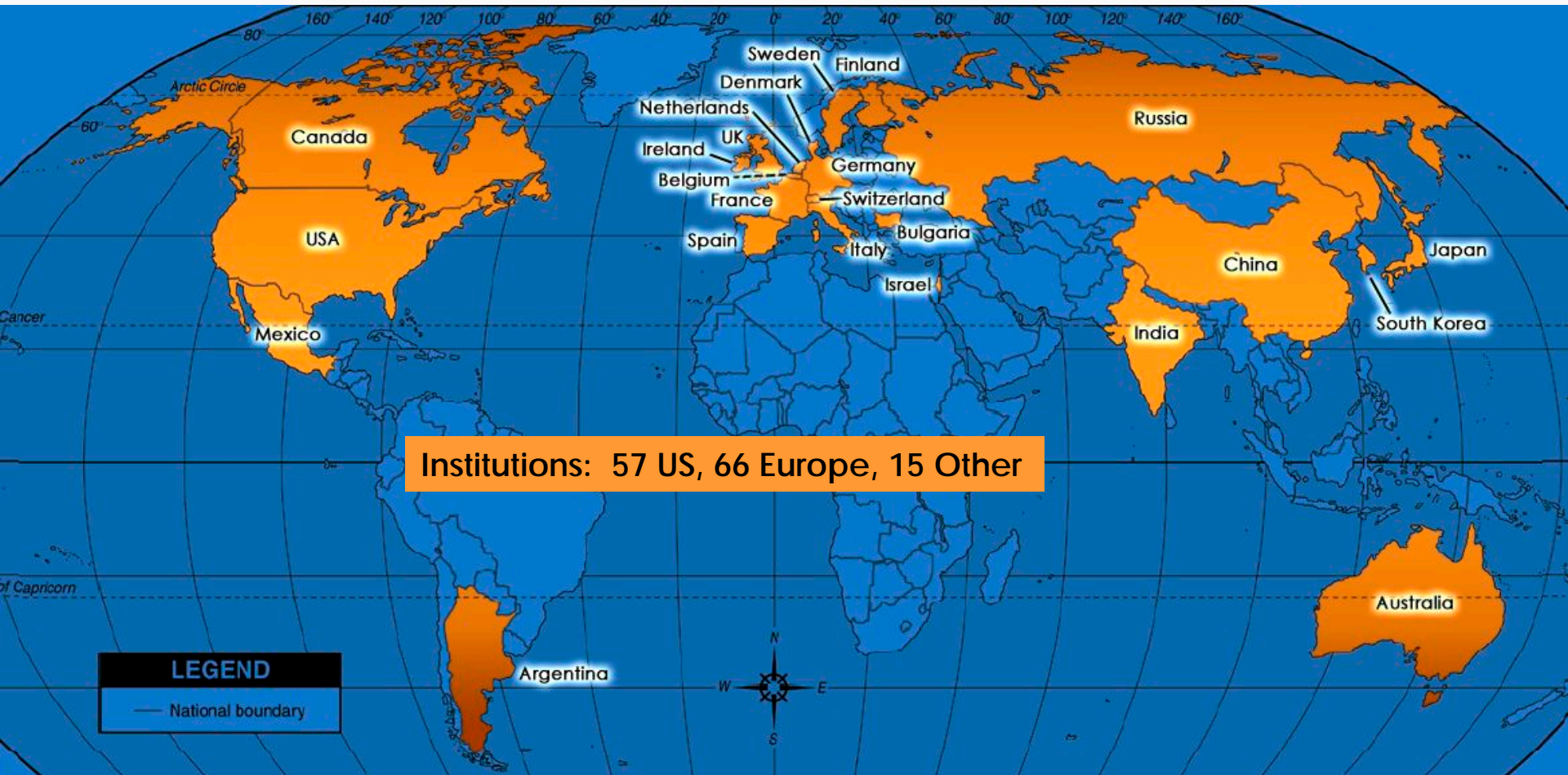


Particle Data Group



Now 57 years

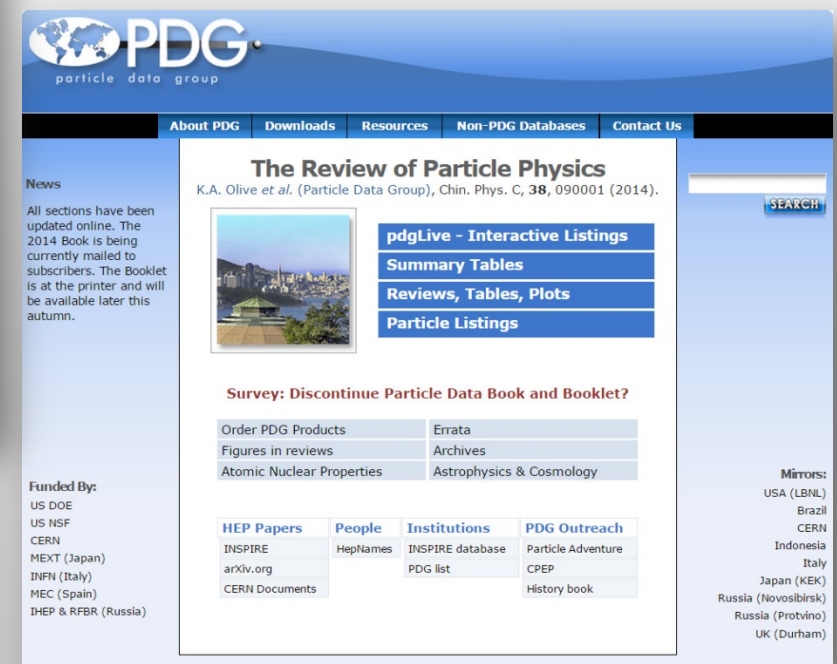
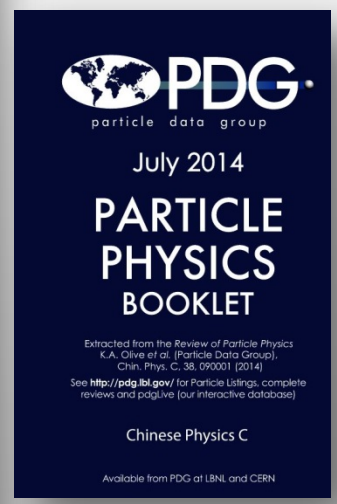
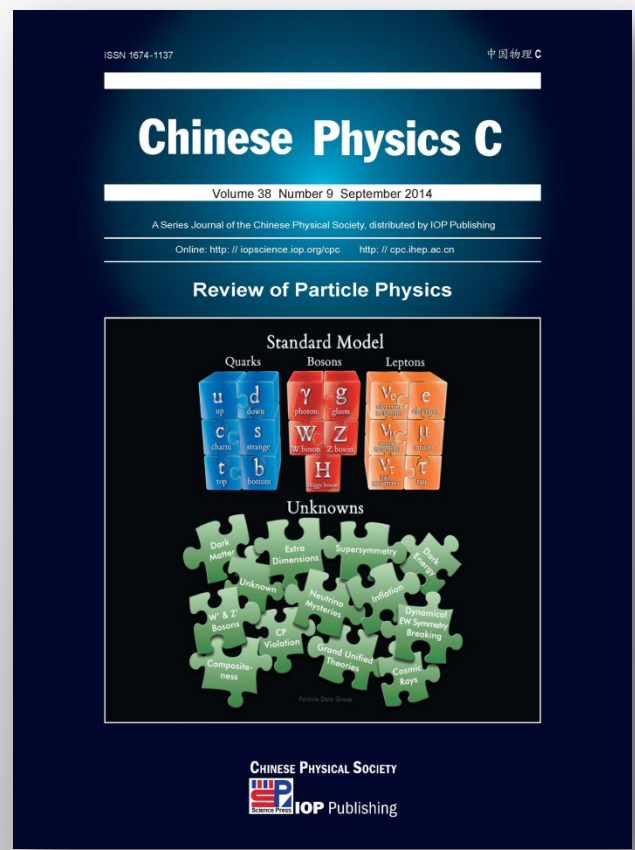
November 2014



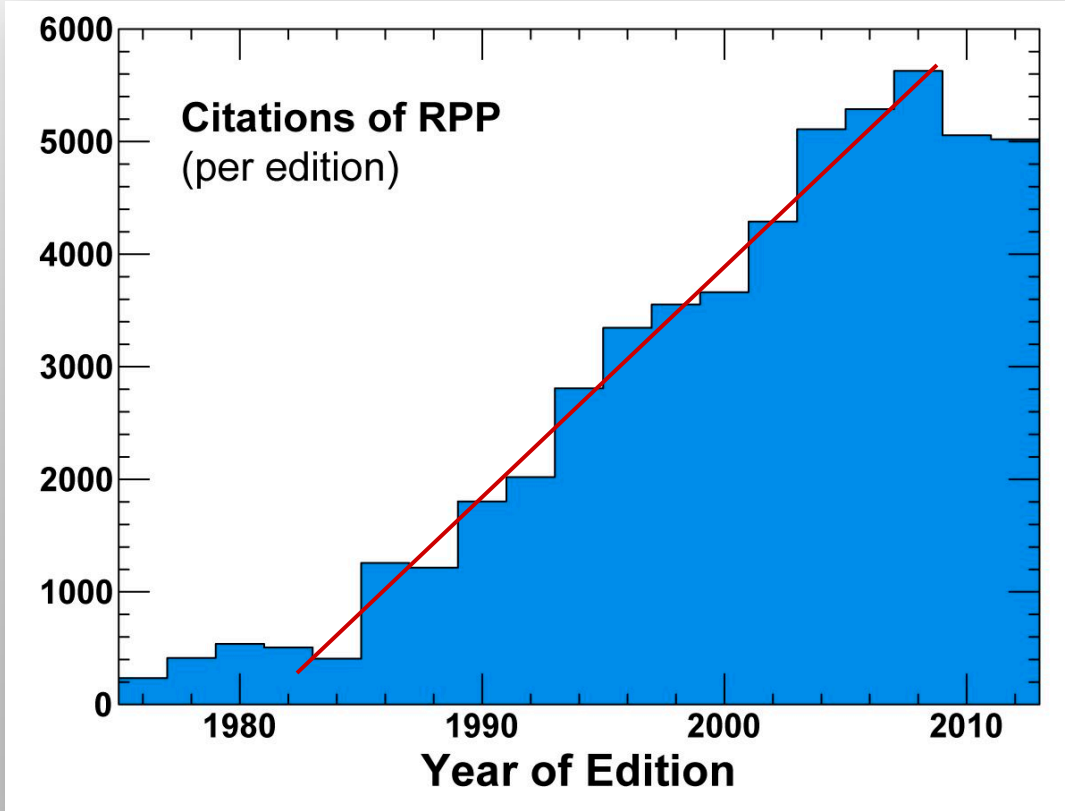
**Particle Data Group collaboration
of 206 authors
from 24 countries and 140 institutions
+ 700 consultants in the HEP community**



2014 Edition (book, booklet, web, pdgLive)



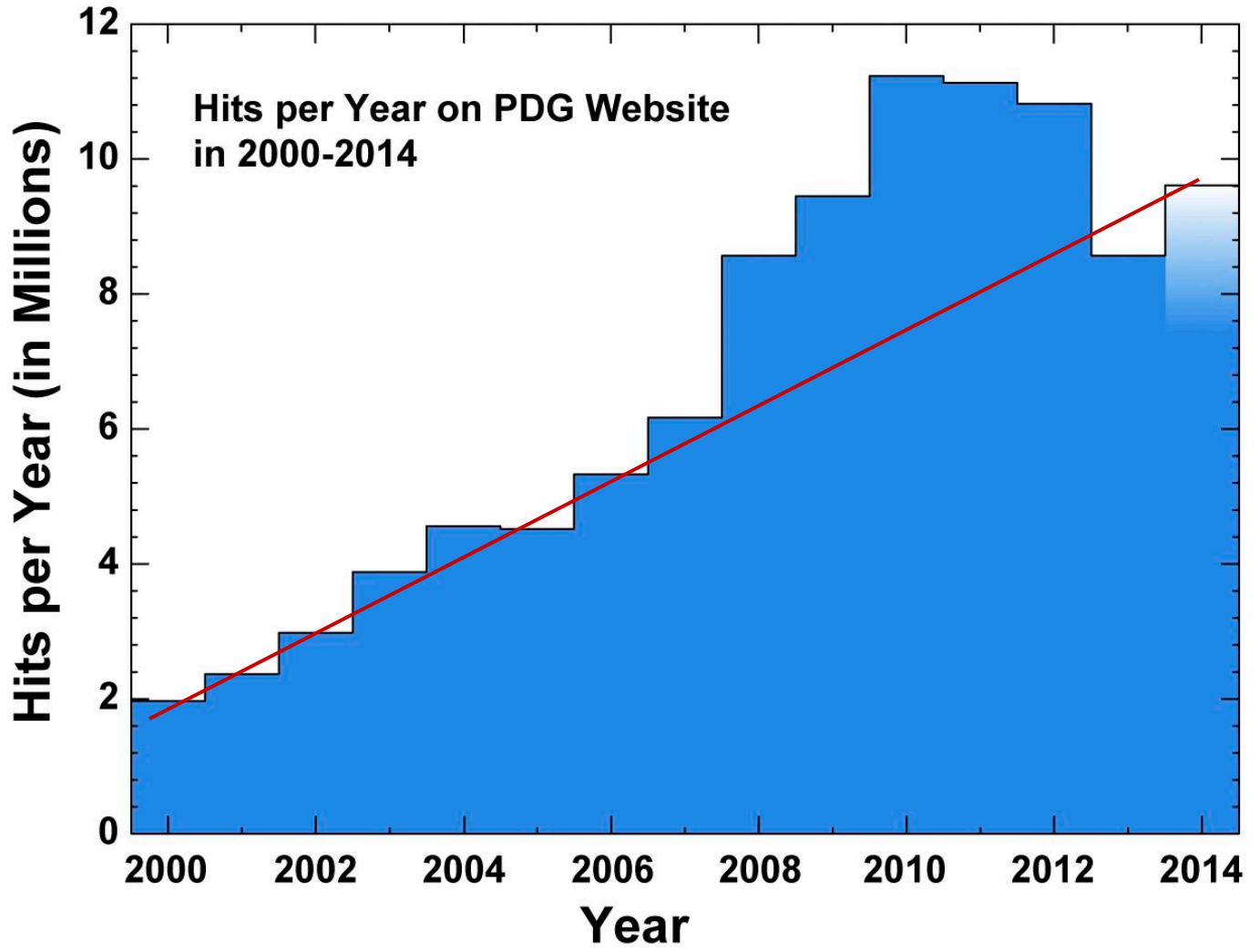
The Review is the all-time top cited article in High Energy Physics with more than **51,000** citations (INSPIRE)



★ Citations increase for years after an edition is published

Web Usage

Excluding
mirror sites
and
excluding
education
webpages



- *Review of Particle Physics*
14,000 copies of 1675-page book
- *Particle Physics Booklet*
32,000 copies of 328-page booklet
- *Pocket Diary for Physicists*
17,000 copies → **DROPPED** due to lack of funding.

Survey on the future of the Book and Booklet.
(The Diary was discontinued due to budget cuts).

**An amazing 6164 readers responded,
demonstrating the very high value our
community places on PDG products.**

(We sent out one email; no reminders).

More later.

- **3283** new measurements from **899** new papers
(of total 32,000 measurements and 9000 papers).
- **112** reviews with many exciting and new features
- Important new data in areas such as
Higgs, SUSY, neutrinos, top quark, B physics, etc.

★ Color Figures everywhere

The Web allows us to see what most interest our readers.

The hits (page views) on

Data Listings = Reviews

almost exactly equal.

Clearly people care about both.

14 years ago: Very little

Now:

Astrophysical Constants 5100 (downloads)

Big Bang Cosmology 6300

Cosmological Parameters:

H_0, Λ, Ω , etc. 11300

Experimental Tests of

Gravitational Theory 3300

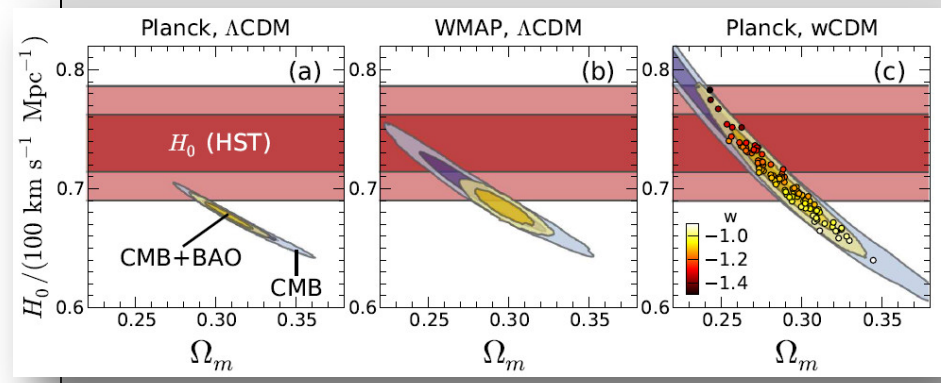
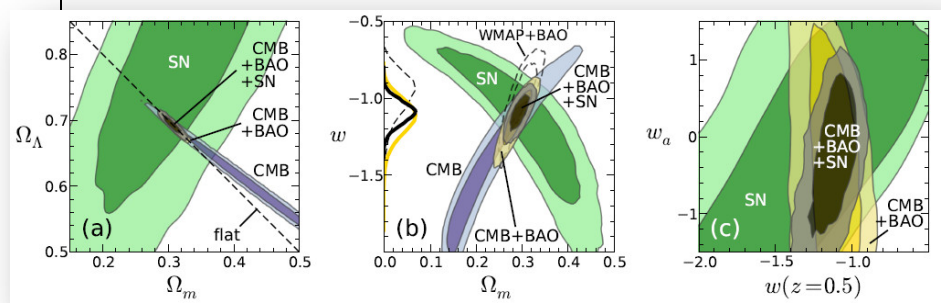
Dark Matter 7200

Dark Energy 6800

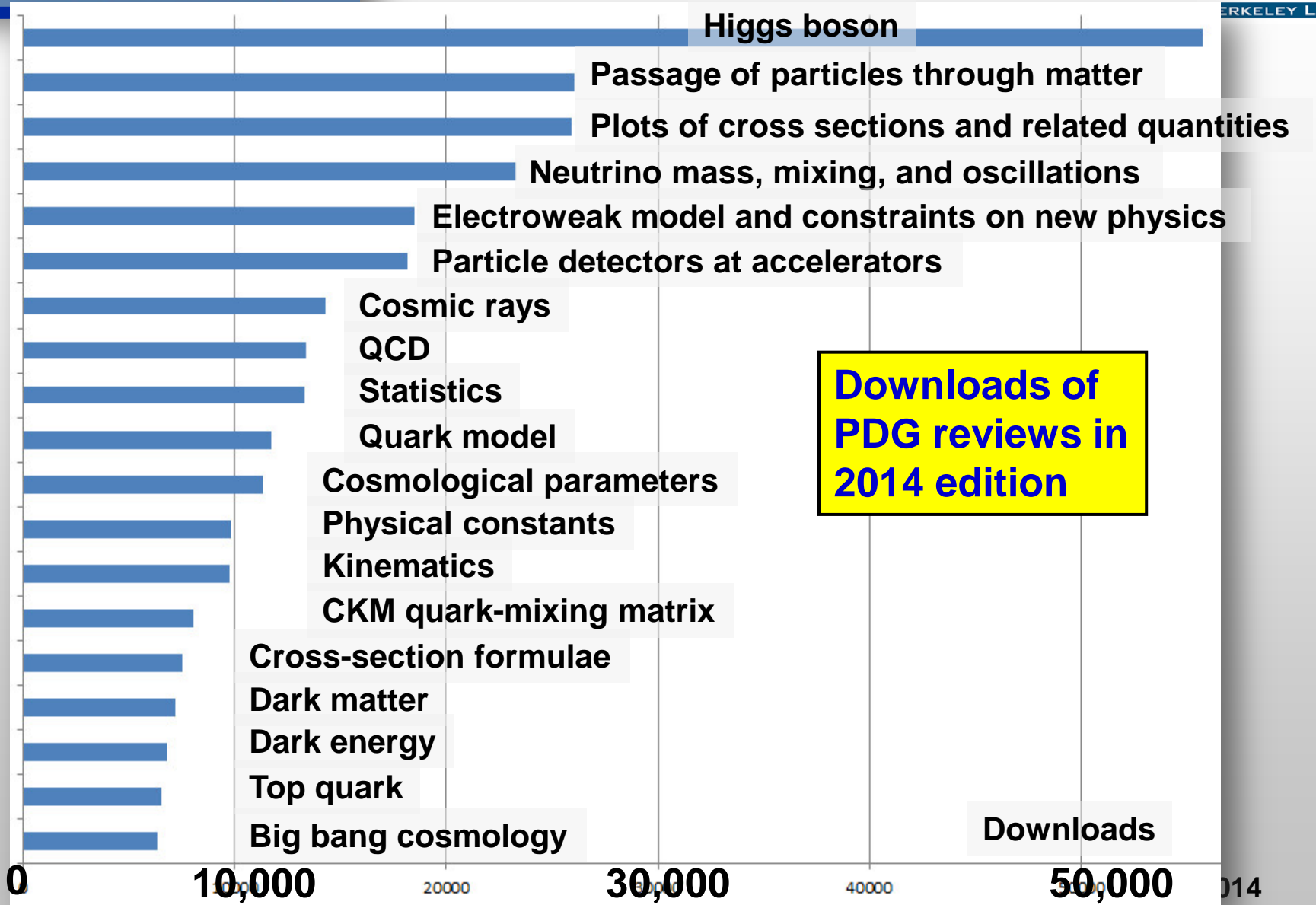
Cosmic Background Rad. 4800

Big Bang Nucleosynthesis 3500

(downloads)



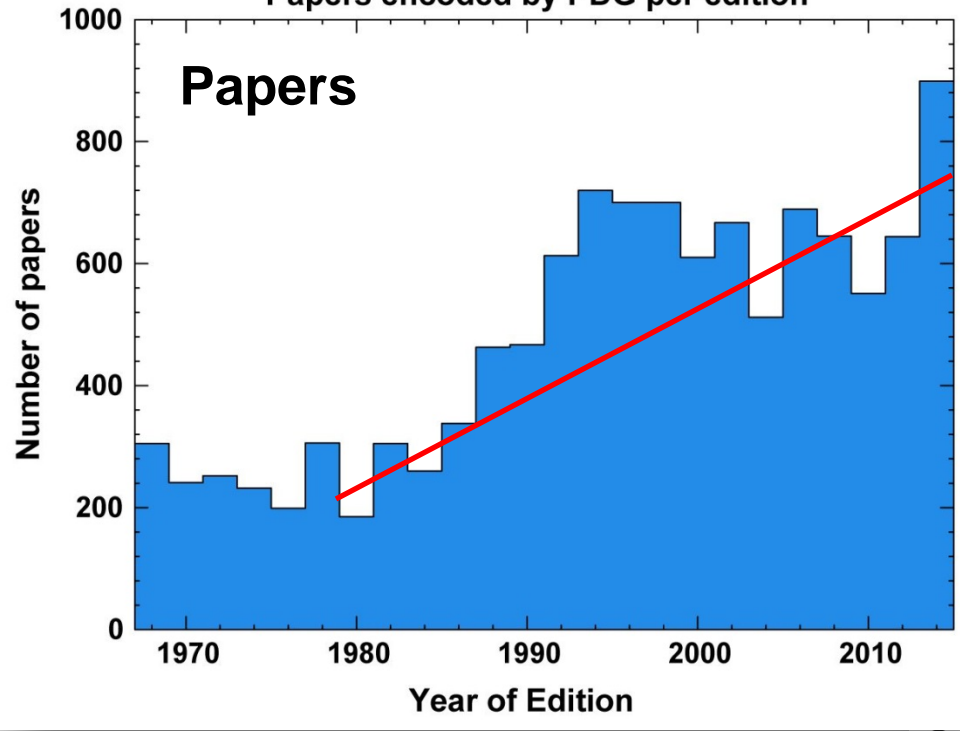
(from Dark Energy review)



**Downloads of
PDG reviews in
2014 edition**

Downloads

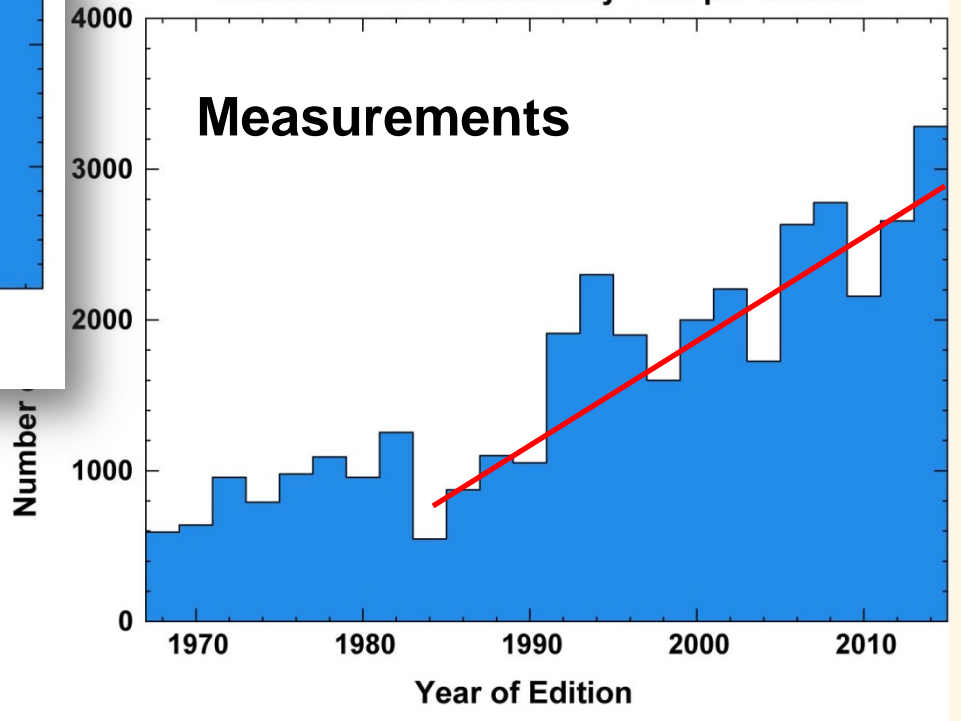
Papers encoded by PDG per edition




LHC bump

Some editions are more or less than 24 months, yielding fluctuations in graphs.

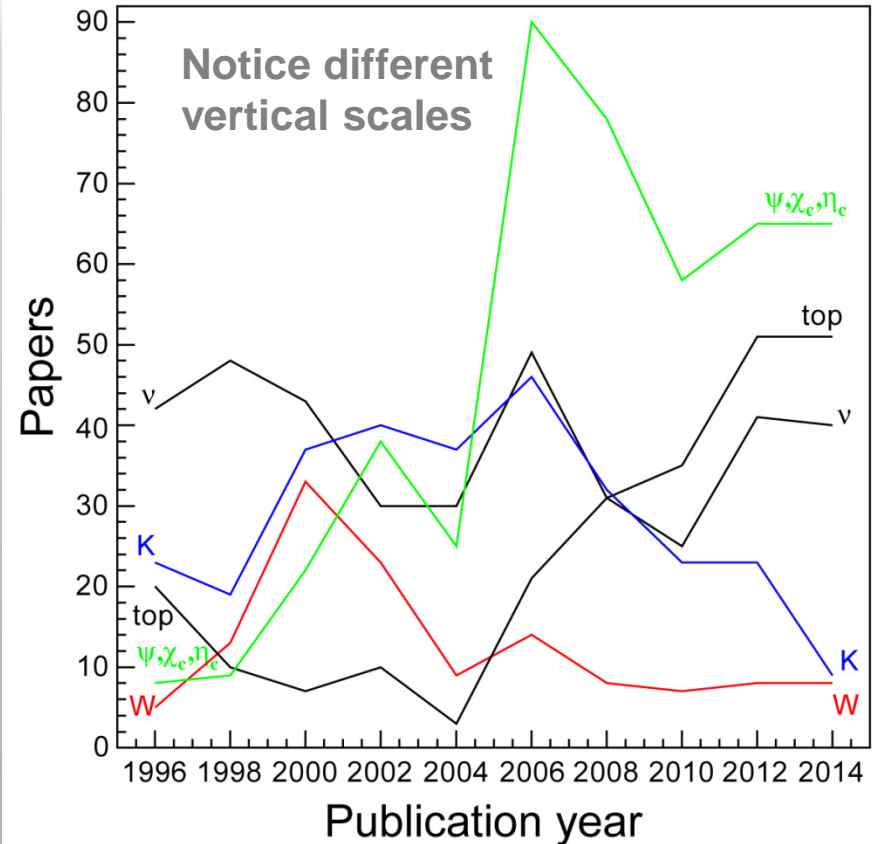
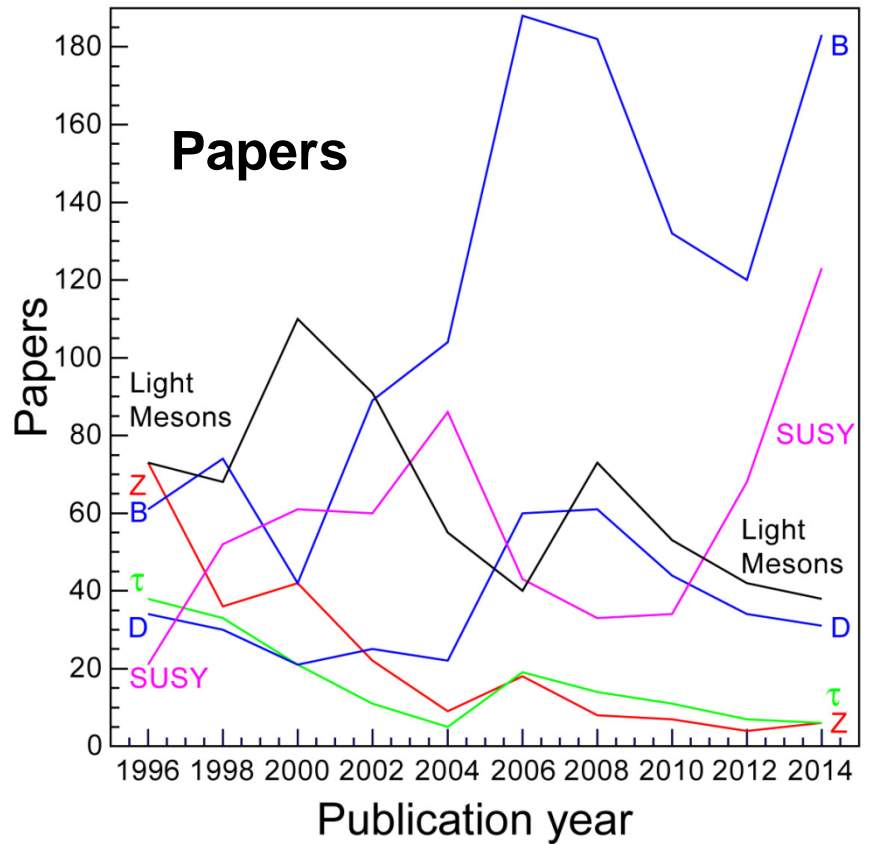
Measurements encoded by PDG per edition



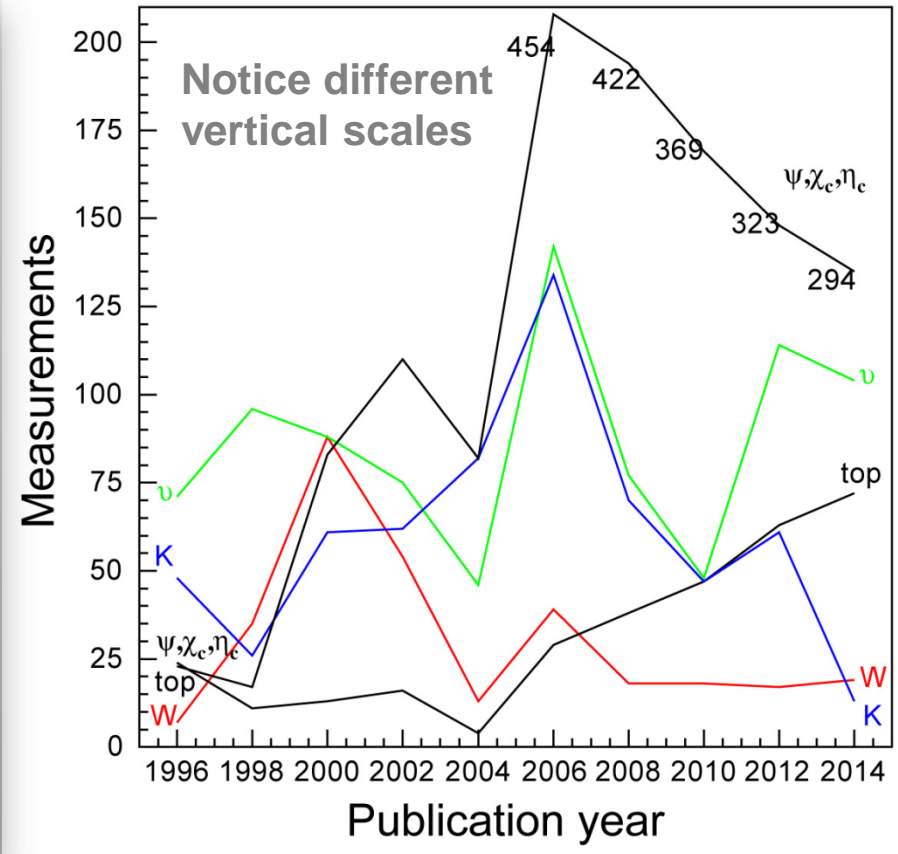
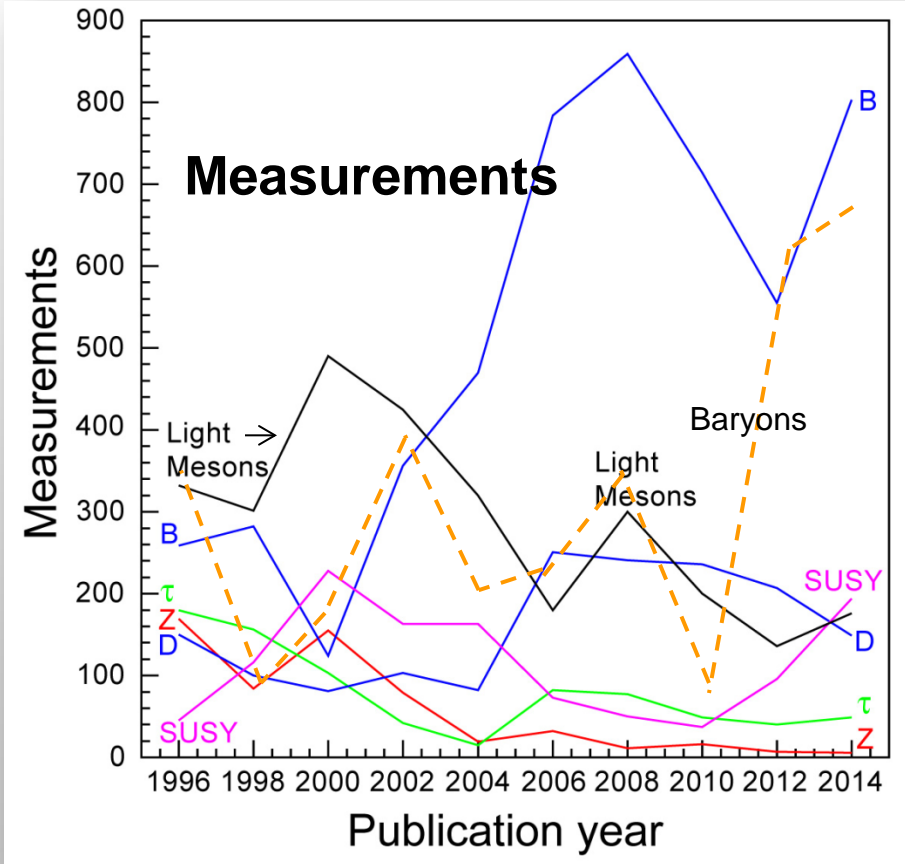
<u>Papers</u>	<u>2008</u>	<u>2010</u>	<u>2012</u>	<u>2014</u>
Supersymmetry	33	34	68	123
Axions	18	21	21	36
Higgs	12	34	51	138
W', Z'	18	16	36	50
Compositeness	6	5	12	17
Extra dimensions	11	10	17	32
Other searches	4	12	37	94
Free q, monopoles	1	3	2	6
	103	135	244	496



132/120/183 B papers in 2010/2012/2014 editions



714/555/803 B measurements in 2010/2012/2014 editions



<u>Papers</u>	2010	2012	2014	<u>Measurements</u>	2008	2010	2014
W Boson	7	8	8	W Boson	18	17	19
Z Boson	7	4	6	Z Boson	16	7	6
τ Lepton	11	7	6	τ lepton	49	40	49
Neutrinos and mixing	25	41	40	Neutrinos and mixing	48	114	104
Quarks (u,d,c,s,b)	17	20	24	Quarks (u,d,c,s,b)	33	51	27
Top quark	35	51	51	Top quark	47	63	72
b', t' quarks	1	5	15	b', t' quarks	1	6	17
$\gamma, e, \mu, \pi, \eta$	20	15	11	$\gamma, e, \mu, \pi, \eta$	40	23	11
K mesons	23	23	9	K mesons	47	61	13
D and D _s mesons	44	34	31	D and D _s mesons	236	207	149
B and B _s mesons	132	120	183	B and B _s mesons	714	555	803
$\Psi, \eta_c, \chi_c, \chi_b, \text{upsilon}$	72	65	65	$\Psi, \eta_c, \chi_c, \chi_b, \text{upsilon}$	329	323	294
Other unstable mesons	58	106	103	Other unstable mesons	369	568	470
Baryons	23	38	38	Baryons	88	667	714
Supersymmetry	34	68	123	Supersymmetry	37	96	194
Axions	21	21	36	Axions	22	22	40
Higgs	34	51	138	Higgs	45	68	258
W', Z'	16	36	50	W', Z'	29	60	66
Compositeness	5	12	17	Compositeness	5	13	23
Extra dimensions	10	17	32	Extra dimensions	14	19	42
Other searches	12	37	94	Other searches	22	65	279
Free q, monopoles	3	2	6	Free q, monopoles	4	2	7
TOTAL	553	644	899	TOTAL	2167	2658	3236

Five publishers bid on RPP and Booklet in past:

Physics Letters B (Elsevier)

Physical Review D (AIP)

Journal of Physics G (IoP)

European Physical Journal C (Springer)

Chinese Physics C (Chinese Phys. Soc.)

This year, one publisher bid on RPP and Booklet

Funding from DOE + Japan (Japan 6% in FY15)

NSF grant (12% of budget) ended last year.

Due to Congress' continuing resolution, the PDG budget for this year (FY15) has been cut by 11%.

96% of the PDG budget is salary.

In FY15, salary alone is more than our funding during CR.

- **We no longer pay any portion of retiree contributions.**
- **We replaced our full-time admin with a 10% admin**
(trying to hire a 1 FTE programmer to replace CD help)
- **All printed products are not currently in our budget.**

This situation is not sustainable.

Deborah Harris – Chair	(Fermilab)
James Olsen	(Princeton)
Junichi Tanaka	(U. of Tokyo)
Tancredi Carli	(CERN)
Anze Slosar	(BNL)
Yasunori Nomura	(UC Berkeley)

The End

