

Welcome!

Please note the safety slides



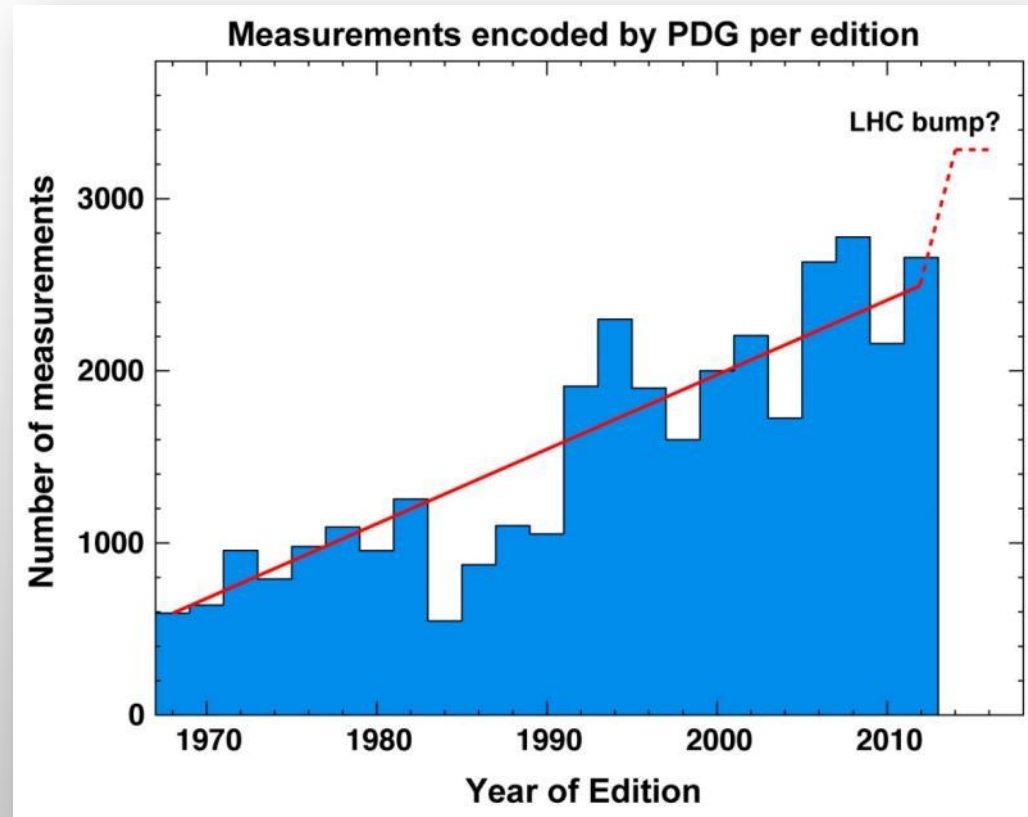
56 Years of Review of Particle Physics

June 2013

- **193 authors** (leading experts) from 22 countries and 117 institutions
- Plus 700 consultants in the HEP community



Workload has increased dramatically. There is and will continue to be an explosion of papers from the LHC experiments, so we anticipate a “bump”.



Each measurement needs to be fully understood in order to properly “encode” the data for the Review.

<u>Papers</u>	<u>2008</u>	<u>2010</u>	<u>2012</u>	<u>2013x2</u>
Supersymmetry	33	34	68	160
Axions	18	21	21	22
Higgs	12	34	51	216
W', Z'	18	16	36	68
Compositeness	6	5	12	18
Extra dimensions	11	10	17	38
Other searches	4	12	37	144
Free q, monopoles	1	3	2	6
	103	135	244	672

For **half** of the 2014 web edition, **336 papers!**

- **2658** new measurements from **644** new papers
(of total 32,100 measurements and 8900 papers).
- **112** reviews with many exciting and new features

★ **Color Figures everywhere**

Many review articles from the 2010 edition were downloaded more than 100,000 times each, including, for example:

- Higgs Boson,
- Passage of Particles through Matter,
- Particle Detectors for Accelerator-Based Physics,
- Statistics,
- Neutrino Mixing,
- Electroweak Model.

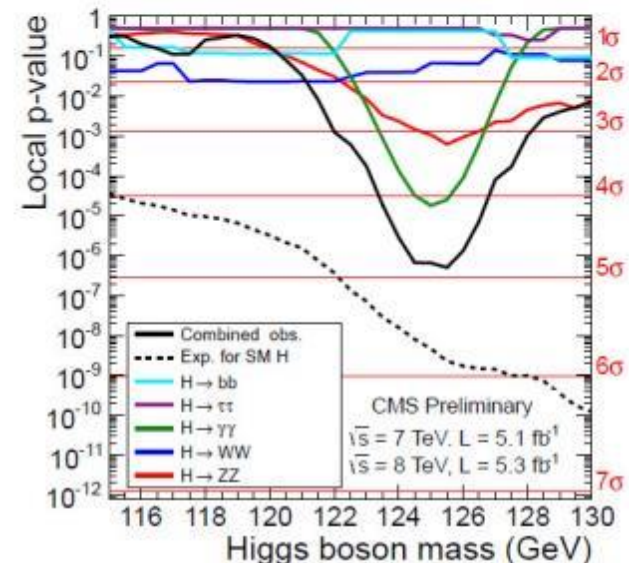
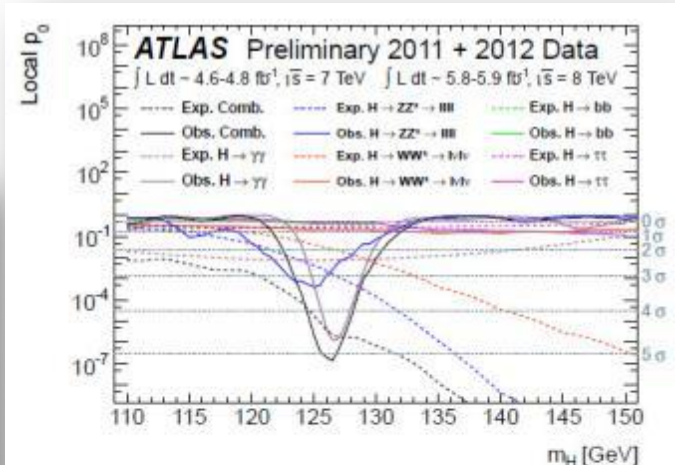
The cosmology reviews were downloaded more than **243,000 times** in total.

Higgs Boson addendum

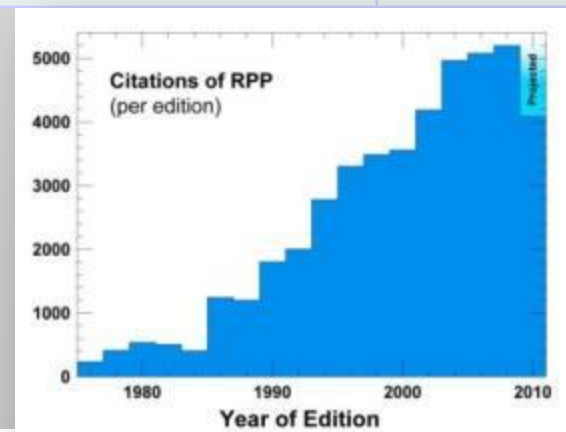
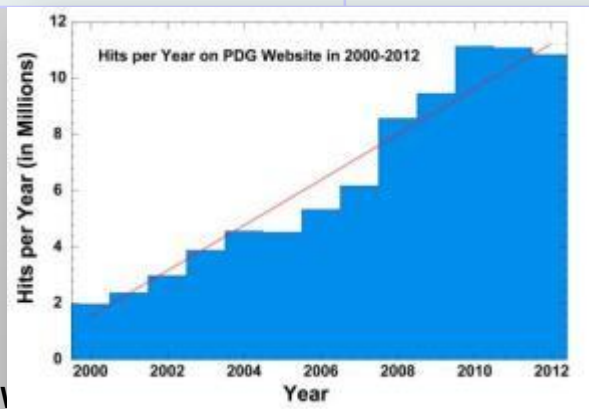
VII. Addendum

Updated July 12, 2012.

On July 4, 2012, the ATLAS and CMS collaborations simultaneously announced observation of a new particle produced in pp collision data at high energies [363–366]. The data samples used correspond to between 4.6 and 5.1 fb^{-1} of collision data collected at $\sqrt{s} = 7$ TeV in 2011, and between 5.3 and 5.9 fb^{-1} of collisions collected at $\sqrt{s} = 8$ TeV in 2012. The observed decay modes indicate that the new particle is a boson. The evidence is strong that the new particle decays to $\gamma\gamma$ and ZZ with rates consistent with those predicted for the Standard Model



	1984 Edition	2010 Edition
Citations	480	4092 → 5200 (asymp.)
Web Hits	Zero → 4 million in 2000 Ed.	22 million
Pages in Book	304	1525
Pages in Booklet	164	303 → 350 (size chg.)
Number distributed	4500 & 9000 (books & booklets)	15,000 & 31,000
Review articles	17	112
Measurements	547	2158 (2658 in 2012)
Authors	14 + 8 (meson)	180 + 13 (meson)



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.

PDG gets many comments and suggestions but by far the most common request is for a PDG app.

This would mean that every physicist could have the PDG tables and reviews in their pocket at all times.

- **In the control room,**
- **On an airplane,**
- **In their office.**



We have a Higgs boson with properties, but we are still searching for other Higgs.

**Supersymmetric Higgs are in both SUSY and Higgs reviews.
How should be handled?**

**What happens to Technicolor after Higgs?
Review should address the implications for Technicolor.**

Top Quark and Electroweak reviews should consider known Higgs.

**Figures are very helpful (especially color).
Tables are good too.**

**Thank you for taking
the time to attend
this workshop!**