

Top Quark

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Updates

- **Increasing number of new results**

	2004	2006	2008
– Papers	3	21	31
– Measurements	4	29	38

- **Changes to Listings**

- Indirect top mass from EW fits no longer in Listings
- Production cross section tables kept (for now)
 - Split into separate tables for different CM energies
- Change footnotes to a more compact and less verbose style

- **Updated top quark review**

- Tables now contain only preliminary results and refer to Listings for published results



Outlook

- **Top quark mass has become precision measurement**
 - Latest world average: $172.4 \pm 0.7 \pm 1.0$ GeV [arXiv:0808.1089]
 - 0.7% accuracy!
- **$t\bar{t}$ production cross section at LHC much larger**
 - 7 pb at Tevatron
 - 900pb (400pb) at LHC at 14 TeV (10 TeV) [arXiv:0804.2800]
 - Backgrounds increase only by one order of magnitude
- **Expect rich top physics program at LHC**
 - Top quarks as a tool to calibrate LHC detectors
 - Many measurements will be limited by systematics