

Weekly Meeting

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Monday, May 09, 2016

$$\epsilon_{m_{\gamma\gamma}}^B$$

- Count from MC $lvjj\gamma\gamma$
 - $\epsilon_{\gamma\gamma}^B = 0.1317$
- Fitting
- $\epsilon_{\gamma\gamma}^B = 0.1364$
- Difference
- $\Delta = 3.4\%$

Upper limits

Toys: 100K with sys

expected limit (+2 sig) 48.8395

expected limit (+1 sig) 34.7265

expected limit (median) 25.3816

expected limit (-1 sig) 21.7434

expected limit (-2 sig) 20.7434

Asymptotic without sys

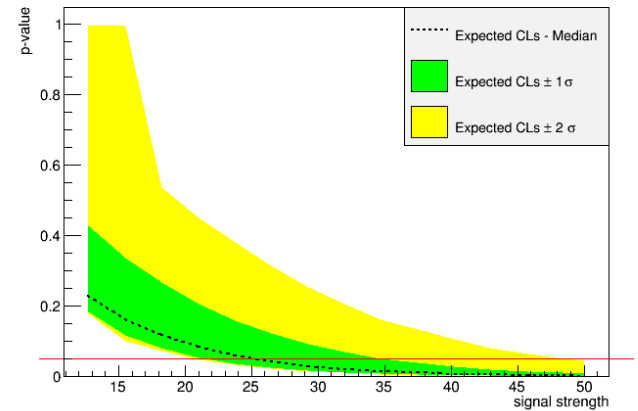
+2sigma: 57.6634

+1sigma: 36.9737

-1sigma: 17.6255

-2sigma: 13.1288

Median: 24.461



Note

- <https://svnweb.cern.ch/trac/atlasphys-hsg6/browser/Physics/Higgs/HS6/notes/Summer2016/DiHiggsWWyy?order=name>