

HiggsBounds [1,2] version 3.4.0beta uses the following experimental analyses: [3–53] .

Internally, **HiggsBounds** uses a number of Standard Model results for the Higgs sector [54–73, 73–86] to convert between experimental limits with different normalisations.

## References

- [1] P. Bechtle et al., Comput. Phys. Commun. 181 (2010) 138, [arXiv:0811.4169](#).
- [2] P. Bechtle et al., (2011), [arXiv:1102.1898](#).
- [3] CDF and D0, (2009), [arXiv:0911.3930](#).
- [4] D0, V.M. Abazov et al., Phys. Lett. B698 (2011) 97, [arXiv:1011.1931](#).
- [5] CDF and D0, T. Aaltonen et al., (2011), [arXiv:1103.3233](#).
- [6] D0, V.M. Abazov et al., Phys. Rev. Lett. 104 (2010) 151801, [arXiv:0912.0968](#).
- [7] OPAL, G. Abbiendi et al., Eur. Phys. J. C27 (2003) 311, [hep-ex/0206022](#).
- [8] D0, V.M. Abazov et al., Phys. Rev. Lett. 101 (2008) 071804, [arXiv:0805.2491](#).
- [9] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 201801, [arXiv:0906.1014](#).
- [10] D0, V.M. Abazov et al., Phys. Rev. Lett. 105 (2010) 251801, [arXiv:1008.3564](#).
- [11] CDF and D0, T. Aaltonen et al., Phys. Rev. D82 (2010) 011102, [arXiv:1005.3216](#).
- [12] CDF, T. Aaltonen et al., (2011), [arXiv:1106.4782](#).
- [13] LEP Higgs Working for Higgs boson searches, (2001), [hep-ex/0107032](#).
- [14] CDF, T. Aaltonen et al., Phys. Rev. Lett. 104 (2010) 141801, [arXiv:0911.3935](#).
- [15] CDF, T. Aaltonen et al., Phys. Rev. Lett. 104 (2010) 061803, [arXiv:1001.4468](#).
- [16] DELPHI, J. Abdallah et al., Eur. Phys. J. C32 (2004) 475, [hep-ex/0401022](#).
- [17] D0, V.M. Abazov et al., Phys. Lett. B663 (2008) 26, [arXiv:0712.0598](#).

- [18] D0, V.M. Abazov et al., Phys. Rev. Lett. 104 (2010) 071801, [arXiv:0912.5285](#).
- [19] OPAL, G. Abbiendi et al., Phys. Lett. B682 (2010) 381, [arXiv:0707.0373](#).
- [20] LEP Higgs Working Group for Higgs boson searches, (2001), [hep-ex/0107031](#).
- [21] D0, V.M. Abazov et al., (2011), [arXiv:1106.4885](#).
- [22] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 101803, [arXiv:0907.1269](#).
- [23] D0, V.M. Abazov et al., Phys. Lett. B671 (2009) 349, [arXiv:0806.0611](#).
- [24] D0, V.M. Abazov et al., Phys. Rev. Lett. 103 (2009) 061801, [arXiv:0905.3381](#).
- [25] D0, V.M. Abazov et al., (2011), [arXiv:1106.4555](#).
- [26] Tevatron New Phenomena and Higgs Working Group, D. Benjamin et al., (2010), [arXiv:1003.3363](#).
- [27] OPAL, G. Abbiendi et al., Eur. Phys. J. C23 (2002) 397, [hep-ex/0111010](#).
- [28] CDF and D0, T.T.E.V.N.P.H..W. Group, (2008), [arXiv:0804.3423](#).
- [29] CDF, T. Aaltonen et al., Phys. Rev. Lett. 105 (2010) 251802, [arXiv:1009.3047](#).
- [30] D0, V.M. Abazov et al., (2011), [arXiv:1107.1268](#).
- [31] L3, P. Achard et al., Phys. Lett. B609 (2005) 35, [hep-ex/0501033](#).
- [32] D0, . and others, (2011), [arXiv:1107.4960](#).
- [33] D0, V.M. Abazov et al., Phys. Lett. B698 (2011) 6, [arXiv:1012.0874](#).
- [34] G. Bernardi et al., (2008), [arXiv:0808.0534](#).
- [35] A. Collaboration, (2011), [arXiv:1107.5003](#).
- [36] CDF and D0, T. Aaltonen et al., Phys. Rev. Lett. 104 (2010) 061802, [arXiv:1001.4162](#).
- [37] CDF, T. Aaltonen et al., Phys. Rev. Lett. 102 (2009) 021802, [arXiv:0809.3930](#).
- [38] ALEPH, S. Schael et al., Eur. Phys. J. C47 (2006) 547, [hep-ex/0602042](#).
- [39] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 101802, [arXiv:0906.5613](#).

- [40] ATLAS, G. Aad et al., (2011), [arXiv:1106.2748](#).
- [41] D0, V.M. Abazov et al., Phys. Lett. B682 (2009) 278, [arXiv:0908.1811](#).
- [42] TEVNP Working Group and CDF and D0, (2007), [arXiv:0712.2383](#).
- [43] CDF and D0, (2010), [arXiv:1007.4587](#).
- [44] D0, V.M. Abazov et al., Phys. Rev. Lett. 102 (2009) 251801, [arXiv:0903.4800](#).
- [45] DELPHI, J. Abdallah et al., Eur. Phys. J. C34 (2004) 399, [hep-ex/0404012](#).
- [46] D0, V.M. Abazov et al., Phys. Rev. Lett. 104 (2010) 061804, [arXiv:1001.4481](#).
- [47] D0, V.M. Abazov et al., Phys. Rev. Lett. 102 (2009) 231801, [arXiv:0901.1887](#).
- [48] DELPHI, J. Abdallah et al., Eur. Phys. J. C38 (2004) 1, [hep-ex/0410017](#).
- [49] CDF, CDF Notes 7307 10235 10439 10105 10599 10596 10065 10573 10010 10574 7712 10500 10239 9999 10583 10485 10606.
- [50] D0, D0 Notes 6229 6008 6177 6083 6170 5985 6091 5974 5739 5845 5757 6182 6179 6226 6220 5726 5871 6183 6171 6219 6223 6087 6166 5873 5740.
- [51] CMS, CMS Physics Analysis Summaries HIG-11-010 HIG-11-006 HIG-11-003 HIG-11-011 HIG-11-009 HIG-11-004 HIG-11-005 HIG-11-008.
- [52] ATLAS, ATLAS CONF Notes 2011-112 2011-048 2011-085 2011-026 2011-052 2011-005 2011-094 2011-103.
- [53] LHWG, LHWG Notes 2002-02.
- [54] A. Djouadi, J. Kalinowski and M. Spira, Comput. Phys. Commun. 108 (1998) 56, [hep-ph/9704448](#).
- [55] S. Catani, D. de Florian and M. Grazzini, JHEP 05 (2001) 025, [hep-ph/0102227](#).
- [56] R.V. Harlander and W.B. Kilgore, Phys. Rev. D64 (2001) 013015, [hep-ph/0102241](#).
- [57] R.V. Harlander and W.B. Kilgore, Phys. Rev. Lett. 88 (2002) 201801, [hep-ph/0201206](#).
- [58] C. Anastasiou and K. Melnikov, Nucl. Phys. B646 (2002) 220, [hep-ph/0207004](#).
- [59] V. Ravindran, J. Smith and W.L. van Neerven, Nucl. Phys. B665 (2003) 325, [hep-ph/0302135](#).

- [60] C. Anastasiou, R. Boughezal and F. Petriello, JHEP 04 (2009) 003, [arXiv:0811.3458](#).
- [61] S. Dawson, Nucl. Phys. B359 (1991) 283.
- [62] A. Djouadi, M. Spira and P.M. Zerwas, Phys. Lett. B264 (1991) 440.
- [63] M. Spira et al., Nucl. Phys. B453 (1995) 17, [hep-ph/9504378](#).
- [64] U. Aglietti et al., Phys. Lett. B595 (2004) 432, [hep-ph/0404071](#).
- [65] G. Degrandi and F. Maltoni, Phys. Lett. B600 (2004) 255, [hep-ph/0407249](#).
- [66] S. Actis et al., Phys. Lett. B670 (2008) 12, [arXiv:0809.1301](#).
- [67] S. Actis et al., Nucl. Phys. B811 (2009) 182, [arXiv:0809.3667](#).
- [68] S. Catani et al., JHEP 07 (2003) 028, [hep-ph/0306211](#).
- [69] D. de Florian and M. Grazzini, Phys. Lett. B674 (2009) 291, [arXiv:0901.2427](#).
- [70] O. Brein, A. Djouadi and R. Harlander, Phys. Lett. B579 (2004) 149, [hep-ph/0307206](#).
- [71] M.L. Ciccolini, S. Dittmaier and M. Kramer, Phys. Rev. D68 (2003) 073003, [hep-ph/0306234](#).
- [72] Higgs Working Group, K.A. Assamagan et al., (2004), [hep-ph/0406152](#).
- [73] R.V. Harlander and W.B. Kilgore, Phys. Rev. D68 (2003) 013001, [hep-ph/0304035](#).
- [74] T. Han, G. Valencia and S. Willenbrock, Phys. Rev. Lett. 69 (1992) 3274, [hep-ph/9206246](#).
- [75] J.M. Campbell and R.K. Ellis, Phys. Rev. D60 (1999) 113006, [hep-ph/9905386](#).
- [76] T. Figy, C. Oleari and D. Zeppenfeld, Phys. Rev. D68 (2003) 073005, [hep-ph/0306109](#).
- [77] E.L. Berger and J.M. Campbell, Phys. Rev. D70 (2004) 073011, [hep-ph/0403194](#).
- [78] U. Aglietti et al., (2006), [hep-ph/0612172](#).
- [79] W. Beenakker et al., Phys. Rev. Lett. 87 (2001) 201805, [hep-ph/0107081](#).
- [80] L. Reina and S. Dawson, Phys. Rev. Lett. 87 (2001) 201804, [hep-ph/0107101](#).

- [81] S. Dawson et al., Phys. Rev. D67 (2003) 071503, [hep-ph/0211438](#).
- [82] O. Brein and W. Hollik, Phys. Rev. D68 (2003) 095006, [hep-ph/0305321](#).
- [83] O. Brein and W. Hollik, Phys. Rev. D76 (2007) 035002,  
[arXiv:0705.2744](#).
- [84] M. Ciccolini, A. Denner and S. Dittmaier, Phys. Rev. Lett. 99 (2007)  
161803, [arXiv:0707.0381](#).
- [85] M. Ciccolini, A. Denner and S. Dittmaier, Phys. Rev. D77 (2008) 013002,  
[arXiv:0710.4749](#).
- [86] LHC Higgs Cross Section Working Group, S. Dittmaier et al., (2011),  
[arXiv:1101.0593](#).