Higgs Bounds [1–3] version 4.1.0 uses the following experimental analyses: [4-55] .

Internally, HiggsBounds uses a number of Standard Model results for the Higgs sector [56–75,75–89] to convert between experimental limits with different normalisations.

## References

- P. Bechtle et al., Comput. Phys. Commun. 181 (2010) 138, arXiv:0811.4169.
- [2] P. Bechtle et al., Comput. Phys. Commun. 182 (2011) 2605, arXiv:1102.1898.
- [3] P. Bechtle et al., PoS CHARGED2012 (2012) 024, arXiv:1301.2345.
- [4] CMS, S. Chatrchyan, JHEP 04 (2012) 036, arXiv:1202.1416.
- [5] ATLAS, Phys. Lett. B716 (2012) 1, arXiv:1207.7214.
- [6] ATLAS, G. Aad et al., JHEP 06 (2012) 039, arXiv:1204.2760.
- [7] D0, V.M. Abazov et al., Phys. Lett. B698 (2011) 97, arXiv:1011.1931.
- [8] OPAL, G. Abbiendi et al., Eur. Phys. J. C27 (2003) 311, hep-ex/0206022.
- [9] CMS, S. Chatrchyan, Phys. Lett. B710 (2012) 26, arXiv:1202.1488.
- [10] ATLAS, G. Aad, Phys. Lett. B707 (2012) 27, arXiv:1108.5064.
- [11] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 201801, arXiv:0906.1014.
- [12] D0, V.M. Abazov et al., Phys. Rev. Lett. 105 (2010) 251801, arXiv:1008.3564.
- [13] ATLAS, G. Aad et al., Phys. Lett. B710 (2012) 383, arXiv:1202.1415.
- [14] ATLAS, and others, Phys. Rev. Lett. 107 (2011) 221802, arXiv:1109.3357.
- [15] CDF, T. Aaltonen et al., Phys. Rev. D85 (2012) 032005, arXiv:1106.4782.
- [16] LEP Higgs Working for Higgs boson searches, (2001), hep-ex/0107032.
- [17] ATLAS, and others, Phys. Rev. Lett. 107 (2011) 231801, arXiv:1109.3615.

- [18] CDF, T. Aaltonen et al., Phys. Rev. Lett. 104 (2010) 061803, arXiv:1001.4468.
- [19] CDF, D. Benjamin et al., (2011), arXiv:1108.3331.
- [20] DELPHI, J. Abdallah et al., Eur. Phys. J. C32 (2004) 475, hep-ex/0401022.
- [21] CMS, S. Chatrchyan, Phys. Rev. Lett. 108 (2012) 111804, arXiv:1202.1997.
- [22] OPAL, G. Abbiendi et al., Phys. Lett. B682 (2010) 381, arXiv:0707.0373.
- [23] LEP Higgs Working Group for Higgs boson searches, (2001), hep-ex/0107031.
- [24] Tevatron New Physics Higgs Working Group, C. Group, D. Collaborations and . the Tevatron New Physics an, (2012), arXiv:1207.0449.
- [25] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 101803, arXiv:0907.1269.
- [26] D0, V.M. Abazov et al., Phys. Rev. Lett. 107 (2011) 121801, arXiv:1106.4885.
- [27] D0, V.M. Abazov et al., Phys. Lett. B671 (2009) 349, arXiv:0806.0611.
- [28] CDF, T. Aaltonen et al., Phys. Rev. Lett. 109 (2012) 071804, arXiv:1207.6436.
- [29] D0, V.M. Abazov et al., Phys. Rev. Lett. 103 (2009) 061801, arXiv:0905.3381.
- [30] Tevatron New Phenomena and Higgs Working Group, D. Benjamin et al., (2010), arXiv:1003.3363.
- [31] D0, V.M. Abazov et al., Phys. Lett. B707 (2012) 323, arXiv:1106.4555.
- [32] OPAL, G. Abbiendi et al., Eur. Phys. J. C23 (2002) 397, hep-ex/0111010.
- [33] D0, V.M. Abazov et al., Phys. Rev. D84 (2011) 092002, arXiv:1107.1268.
- [34] L3, P. Achard et al., Phys. Lett. B609 (2005) 35, hep-ex/0501033.
- [35] TEVNPH Working Group, and others, (2011), arXiv:1107.4960.
- [36] D0, V.M. Abazov et al., Phys. Lett. B698 (2011) 6, arXiv:1012.0874.
- [37] ATLAS, G. Aad, Phys. Lett. B705 (2011) 174, arXiv:1107.5003.

- [38] ATLAS, G. Aad, Phys. Rev. Lett. 108 (2012) 111802, arXiv:1112.2577.
- [39] CDF, T. Aaltonen et al., Phys. Rev. Lett. 102 (2009) 021802, arXiv:0809.3930.
- [40] ATLAS, G. Aad, Phys. Rev. Lett. 108 (2012) 111803, arXiv:1202.1414.
- [41] CDF, T. Aaltonen et al., Phys. Rev. Lett. 103 (2009) 101802, arXiv:0906.5613.
- [42] ALEPH, S. Schael et al., Eur. Phys. J. C47 (2006) 547, hep-ex/0602042.
- [43] D0, V.M. Abazov et al., Phys. Lett. B682 (2009) 278, arXiv:0908.1811.
- [44] CMS, ., (2013), arXiv:1307.5515.
- [45] ATLAS, G. Aad, Phys. Lett. B710 (2012) 49, arXiv:1202.1408.
- [46] D0, V.M. Abazov et al., Phys. Rev. Lett. 104 (2010) 061804, arXiv:1001.4481.
- [47] DELPHI, J. Abdallah et al., Eur. Phys. J. C34 (2004) 399, hep-ex/0404012.
- [48] CMS, S. Chatrchyan, JHEP 03 (2012) 040, arXiv:1202.3478.
- [49] D0, V.M. Abazov et al., Phys. Rev. Lett. 102 (2009) 231801, arXiv:0901.1887.
- [50] DELPHI, J. Abdallah et al., Eur. Phys. J. C38 (2004) 1, hep-ex/0410017.
- [51] CDF, CDF Notes 10500 7307 10439 10796 9999 10485 10798 8353 10799 10599 10573 10010 7712 10574.
- [52] D0, D0 Notes 6083 6305 6227 6299 6301 6302 5739 5845 6286 5757 6296 6183 6295 6171 6309 6276 6304 5873.
- [53] CMS, CMS Physics Analysis Summaries.
- [54] ATLAS, ATLAS CONF Notes 2012-160 2012-135 2013-011 2012-161 2012-092 2012-018 2012-012 2013-010 2012-094 2013-013 2013-090 2013-009 2012-019 2012-168 2012-078 2012-017 2012-016 2011-094 2013-030 2011-157.
- [55] LHWG, LHWG Notes 2002-02.
- [56] A. Djouadi, J. Kalinowski and M. Spira, Comput. Phys. Commun. 108 (1998) 56, hep-ph/9704448.
- [57] S. Catani, D. de Florian and M. Grazzini, JHEP 05 (2001) 025, hep-ph/0102227.

- [58] R.V. Harlander and W.B. Kilgore, Phys. Rev. D64 (2001) 013015, hep-ph/0102241.
- [59] R.V. Harlander and W.B. Kilgore, Phys. Rev. Lett. 88 (2002) 201801, hep-ph/0201206.
- [60] C. Anastasiou and K. Melnikov, Nucl. Phys. B646 (2002) 220, hep-ph/0207004.
- [61] V. Ravindran, J. Smith and W.L. van Neerven, Nucl. Phys. B665 (2003) 325, hep-ph/0302135.
- [62] C. Anastasiou, R. Boughezal and F. Petriello, JHEP 04 (2009) 003, arXiv:0811.3458.
- [63] S. Dawson, Nucl. Phys. B359 (1991) 283.
- [64] A. Djouadi, M. Spira and P.M. Zerwas, Phys. Lett. B264 (1991) 440.
- [65] M. Spira et al., Nucl. Phys. B453 (1995) 17, hep-ph/9504378.
- [66] U. Aglietti et al., Phys. Lett. B595 (2004) 432, hep-ph/0404071.
- [67] G. Degrassi and F. Maltoni, Phys. Lett. B600 (2004) 255, hep-ph/0407249.
- [68] S. Actis et al., Phys. Lett. B670 (2008) 12, arXiv:0809.1301.
- [69] S. Actis et al., Nucl. Phys. B811 (2009) 182, arXiv:0809.3667.
- [70] S. Catani et al., JHEP 07 (2003) 028, hep-ph/0306211.
- [71] D. de Florian and M. Grazzini, Phys. Lett. B674 (2009) 291, arXiv:0901.2427.
- [72] O. Brein, A. Djouadi and R. Harlander, Phys. Lett. B579 (2004) 149, hep-ph/0307206.
- [73] M.L. Ciccolini, S. Dittmaier and M. Kramer, Phys. Rev. D68 (2003) 073003, hep-ph/0306234.
- [74] Higgs Working Group, K.A. Assamagan et al., (2004), hep-ph/0406152.
- [75] R.V. Harlander and W.B. Kilgore, Phys. Rev. D68 (2003) 013001, hep-ph/0304035.
- [76] T. Han, G. Valencia and S. Willenbrock, Phys. Rev. Lett. 69 (1992) 3274, hep-ph/9206246.
- [77] J.M. Campbell and R.K. Ellis, Phys. Rev. D60 (1999) 113006, hep-ph/9905386.

- [78] T. Figy, C. Oleari and D. Zeppenfeld, Phys. Rev. D68 (2003) 073005, hep-ph/0306109.
- [79] E.L. Berger and J.M. Campbell, Phys. Rev. D70 (2004) 073011, hep-ph/0403194.
- [80] U. Aglietti et al., (2006), hep-ph/0612172.
- [81] W. Beenakker et al., Phys. Rev. Lett. 87 (2001) 201805, hep-ph/0107081.
- [82] L. Reina and S. Dawson, Phys. Rev. Lett. 87 (2001) 201804, hep-ph/0107101.
- [83] S. Dawson et al., Phys. Rev. D67 (2003) 071503, hep-ph/0211438.
- [84] O. Brein and W. Hollik, Phys. Rev. D68 (2003) 095006, hep-ph/0305321.
- [85] O. Brein and W. Hollik, Phys. Rev. D76 (2007) 035002, arXiv:0705.2744.
- [86] M. Ciccolini, A. Denner and S. Dittmaier, Phys. Rev. Lett. 99 (2007) 161803, arXiv:0707.0381.
- [87] M. Ciccolini, A. Denner and S. Dittmaier, Phys. Rev. D77 (2008) 013002, arXiv:0710.4749.
- [88] LHC Higgs Cross Section Working Group, S. Dittmaier et al., (2011), arXiv:1101.0593.
- [89] S. Dittmaier et al., (2012), arXiv:1201.3084.