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SM Higgs production cross sections at $\sqrt{s} = 7$ TeV (used for ICHEP 2012)

- ggF numbers are based upon complex-pole-scheme (CPS), while all others with zero-width-approximation (ZWA).
- SM Higgs cross sections and BRs in Spread sheet is available in xlsx format or xls format. [NEW](#)
- You can find figures at our gallery here. [NEW](#)
- Check here for numbers based on CERN Report 1.
- Check here for numbers used in 2011 analyses based on CERN Report 1 (all numbers are ZWA).

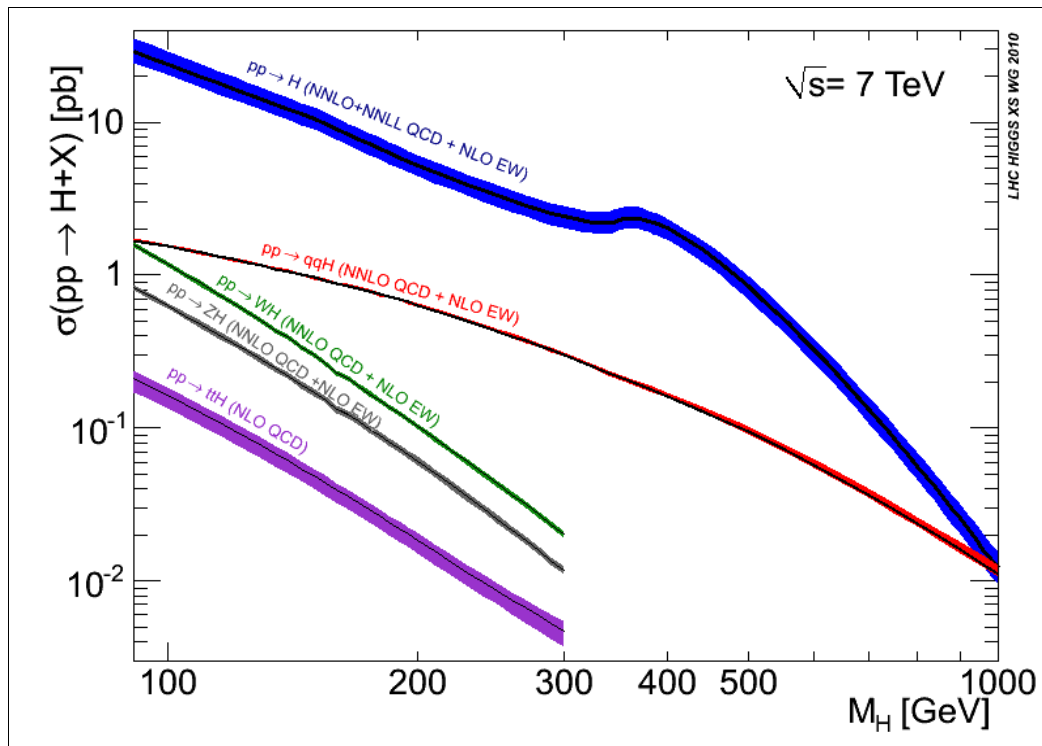


Figure 1: Standard Model Higgs boson production cross sections.

Higgs mass range and step:

Higgs Mass range	step size	# of points	addendum
[90,110] GeV	5 GeV	5 points	
[110,140] GeV	0.5 GeV	60 points	
[140,160] GeV	1 GeV	20 points	
[160,290] GeV	2 GeV	65 points	+ 165, 175, 185, 195 GeV (4 points)
[290,350] GeV	5 GeV	12 points	
[350,400] GeV	10 GeV	5 points	
[400,1000] GeV	20 GeV	30 points	+ 450, 550, 650, 750, 850, 950 GeV (6 points).

- 197 points in total for ggF and VBF, 152 points for WH/ZH and ttH processes.
- Additional points of $M_H=165, 175, 185, 195, 450, 550, 650, 750, 850, 950$ GeV are not listed below, but listed in the spread sheet linked above.

gluon-gluon Fusion Process

The central value is taken as the central value of the "envelope" of dFG and ABPS calculations. The total uncertainty (+-error) is the linear combination of the QCD scale (+-scale) and the PDF+alpha_s uncertainties.

• ggF numbers are based upon complex-pole-scheme (CPS).

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α_s) %	-(PDF+ α_s) %
90.0	29.51	+16.0	-15.4	+8.2	-8.7	+7.8	-6.7
95.0	26.51	+15.8	-15.3	+8.0	-8.6	+7.8	-6.7
100.0	24.00	+15.5	-15.2	+7.8	-8.4	+7.7	-6.8
105.0	21.77	+15.4	-15.2	+7.7	-8.3	+7.7	-6.9
110.0	19.84	+15.2	-15.0	+7.5	-8.1	+7.7	-6.9
110.5	19.66	+15.2	-15.0	+7.5	-8.1	+7.7	-6.9
111.0	19.48	+15.2	-15.0	+7.5	-8.1	+7.7	-6.9
111.5	19.31	+15.2	-15.0	+7.5	-8.1	+7.7	-6.9
112.0	19.13	+15.2	-15.0	+7.5	-8.1	+7.7	-6.9
112.5	18.96	+15.1	-15.0	+7.4	-8.0	+7.7	-6.9
113.0	18.79	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
113.5	18.63	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
114.0	18.46	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
114.5	18.30	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
115.0	18.14	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
115.5	17.98	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
116.0	17.83	+15.1	-15.0	+7.4	-8.0	+7.7	-7.0
116.5	17.67	+15.0	-15.0	+7.4	-8.0	+7.7	-7.0
117.0	17.52	+15.0	-15.0	+7.3	-8.0	+7.7	-7.0
117.5	17.37	+15.0	-15.0	+7.3	-8.0	+7.7	-7.0
118.0	17.22	+14.9	-15.0	+7.3	-7.9	+7.7	-7.0
118.5	17.08	+14.9	-14.9	+7.3	-7.9	+7.6	-7.0
119.0	16.93	+14.9	-14.9	+7.3	-7.9	+7.6	-7.0
119.5	16.79	+14.8	-14.9	+7.2	-7.9	+7.6	-7.0
120.0	16.65	+14.8	-14.9	+7.2	-7.9	+7.6	-7.0
120.5	16.51	+14.8	-14.9	+7.2	-7.9	+7.6	-7.0
121.0	16.37	+14.8	-14.9	+7.2	-7.9	+7.6	-7.0
121.5	16.23	+14.8	-14.9	+7.2	-7.9	+7.6	-7.0
122.0	16.10	+14.7	-14.9	+7.2	-7.9	+7.6	-7.0
122.5	15.97	+14.7	-14.9	+7.1	-7.9	+7.6	-7.0
123.0	15.84	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
123.5	15.71	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
124.0	15.58	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
124.5	15.45	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
125.0	15.32	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
125.5	15.20	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
126.0	15.08	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
126.5	14.96	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
127.0	14.85	+14.7	-14.9	+7.1	-7.8	+7.6	-7.1
127.5	14.73	+14.7	-14.9	+7.1	-7.8	+7.6	-7.2
128.0	14.62	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
128.5	14.50	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2

129.0	14.38	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
129.5	14.27	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
130.0	14.16	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
130.5	14.05	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
131.0	13.94	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
131.5	13.83	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
132.0	13.72	+14.6	-14.9	+7.0	-7.7	+7.6	-7.2
132.5	13.62	+14.6	-14.9	+7.0	-7.7	+7.6	-7.3
133.0	13.51	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
133.5	13.41	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
134.0	13.31	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
134.5	13.21	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
135.0	13.11	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
135.5	13.01	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
136.0	12.91	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
136.5	12.81	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
137.0	12.72	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
137.5	12.62	+14.5	-14.9	+6.9	-7.6	+7.6	-7.3
138.0	12.53	+14.4	-14.9	+6.8	-7.5	+7.6	-7.3
138.5	12.44	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
139.0	12.35	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
139.5	12.26	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
140.0	12.18	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
141.0	12.00	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
142.0	11.82	+14.4	-14.8	+6.8	-7.5	+7.6	-7.3
143.0	11.65	+14.3	-14.8	+6.7	-7.5	+7.6	-7.4
144.0	11.49	+14.3	-14.9	+6.7	-7.5	+7.6	-7.4
145.0	11.33	+14.3	-14.9	+6.7	-7.5	+7.6	-7.4
146.0	11.18	+14.3	-14.9	+6.7	-7.5	+7.6	-7.4
147.0	11.02	+14.3	-14.9	+6.7	-7.5	+7.6	-7.4
148.0	10.87	+14.2	-14.9	+6.6	-7.5	+7.6	-7.5
149.0	10.72	+14.2	-14.9	+6.6	-7.4	+7.6	-7.5
150.0	10.58	+14.2	-14.9	+6.6	-7.4	+7.6	-7.5
151.0	10.43	+14.2	-14.9	+6.6	-7.4	+7.6	-7.5
152.0	10.29	+14.1	-14.9	+6.6	-7.4	+7.6	-7.5
153.0	10.16	+14.1	-14.9	+6.5	-7.3	+7.6	-7.5
154.0	10.02	+14.1	-14.8	+6.5	-7.3	+7.5	-7.5
155.0	9.886	+14.0	-14.8	+6.5	-7.3	+7.5	-7.5
156.0	9.754	+14.0	-14.8	+6.5	-7.3	+7.5	-7.5
157.0	9.624	+14.0	-14.8	+6.5	-7.3	+7.5	-7.5
158.0	9.487	+13.9	-14.8	+6.4	-7.2	+7.5	-7.6
159.0	9.349	+13.9	-14.8	+6.4	-7.2	+7.5	-7.6
160.0	9.202	+13.9	-14.8	+6.4	-7.2	+7.5	-7.6
162.0	8.830	+13.9	-14.8	+6.4	-7.2	+7.5	-7.6
164.0	8.519	+13.9	-14.9	+6.4	-7.2	+7.5	-7.7
166.0	8.246	+13.9	-14.9	+6.4	-7.2	+7.5	-7.7
168.0	8.009	+13.9	-14.9	+6.4	-7.2	+7.5	-7.8
170.0	7.786	+13.8	-14.9	+6.3	-7.1	+7.5	-7.8
172.0	7.578	+13.8	-14.9	+6.3	-7.1	+7.5	-7.8
174.0	7.389	+13.7	-14.8	+6.2	-7.0	+7.5	-7.8

176.0	7.212	+13.7	-14.8	+6.2	-7.0	+7.5	-7.8
178.0	7.041	+13.7	-14.8	+6.2	-7.0	+7.5	-7.8
180.0	6.869	+13.7	-14.8	+6.2	-7.0	+7.5	-7.8
182.0	6.696	+13.7	-14.8	+6.2	-7.0	+7.5	-7.8
184.0	6.522	+13.6	-14.7	+6.1	-6.9	+7.5	-7.8
186.0	6.349	+13.6	-14.7	+6.1	-6.9	+7.5	-7.8
188.0	6.179	+13.6	-14.7	+6.1	-6.9	+7.5	-7.8
190.0	6.017	+13.6	-14.7	+6.1	-6.9	+7.5	-7.8
192.0	5.865	+13.6	-14.7	+6.1	-6.9	+7.5	-7.8
194.0	5.725	+13.6	-14.6	+6.1	-6.8	+7.5	-7.8
196.0	5.598	+13.6	-14.6	+6.1	-6.8	+7.5	-7.8
198.0	5.483	+13.6	-14.6	+6.1	-6.8	+7.6	-7.8
200.0	5.377	+13.6	-14.6	+6.0	-6.8	+7.6	-7.8
202.0	5.277	+13.6	-14.6	+6.0	-6.8	+7.6	-7.8
204.0	5.188	+13.6	-14.6	+6.0	-6.8	+7.6	-7.8
206.0	5.106	+13.6	-14.6	+6.0	-6.8	+7.6	-7.8
208.0	5.009	+13.5	-14.6	+6.0	-6.7	+7.6	-7.9
210.0	4.922	+13.5	-14.6	+6.0	-6.7	+7.5	-7.9
212.0	4.833	+13.6	-14.6	+6.1	-6.7	+7.5	-7.9
214.0	4.758	+13.7	-14.6	+6.1	-6.7	+7.5	-7.9
216.0	4.695	+13.8	-14.6	+6.2	-6.6	+7.5	-7.9
218.0	4.608	+13.9	-14.5	+6.4	-6.6	+7.6	-7.9
220.0	4.528	+14.1	-14.5	+6.5	-6.6	+7.6	-7.9
222.0	4.449	+14.1	-14.5	+6.5	-6.6	+7.6	-7.9
224.0	4.381	+14.0	-14.5	+6.4	-6.6	+7.6	-7.9
226.0	4.321	+13.9	-14.5	+6.3	-6.5	+7.7	-8.0
228.0	4.245	+13.8	-14.5	+6.1	-6.5	+7.7	-8.0
230.0	4.177	+13.6	-14.5	+5.9	-6.5	+7.7	-8.0
232.0	4.114	+13.6	-14.5	+5.9	-6.5	+7.7	-8.0
234.0	4.056	+13.5	-14.5	+5.8	-6.5	+7.7	-8.0
236.0	3.990	+13.5	-14.5	+5.8	-6.4	+7.7	-8.0
238.0	3.924	+13.6	-14.4	+5.9	-6.4	+7.7	-8.0
240.0	3.854	+13.6	-14.4	+5.9	-6.4	+7.7	-8.0
242.0	3.789	+13.6	-14.4	+5.9	-6.4	+7.7	-8.0
244.0	3.726	+13.6	-14.4	+5.9	-6.4	+7.7	-8.0
246.0	3.667	+13.6	-14.4	+5.9	-6.3	+7.8	-8.1
248.0	3.611	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
250.0	3.555	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
252.0	3.501	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
254.0	3.449	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
256.0	3.398	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
258.0	3.349	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
260.0	3.301	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
262.0	3.255	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
264.0	3.211	+13.6	-14.4	+5.8	-6.3	+7.8	-8.1
266.0	3.167	+13.7	-14.4	+5.8	-6.3	+7.9	-8.1
268.0	3.125	+13.7	-14.3	+5.8	-6.2	+7.9	-8.1
270.0	3.083	+13.7	-14.3	+5.8	-6.2	+7.9	-8.1
272.0	3.044	+13.7	-14.3	+5.8	-6.2	+7.9	-8.1
274.0	3.006	+13.7	-14.3	+5.8	-6.2	+7.9	-8.1

276.0	2.970	+13.7	-14.3	+5.8	-6.1	+7.9	-8.2
278.0	2.934	+13.7	-14.3	+5.8	-6.1	+7.9	-8.2
280.0	2.900	+13.7	-14.3	+5.8	-6.1	+7.9	-8.2
282.0	2.866	+13.7	-14.3	+5.8	-6.1	+7.9	-8.2
284.0	2.833	+13.7	-14.3	+5.8	-6.1	+7.9	-8.2
286.0	2.803	+13.8	-14.4	+5.8	-6.1	+8.0	-8.3
288.0	2.773	+13.8	-14.4	+5.8	-6.1	+8.0	-8.3
290.0	2.744	+13.8	-14.4	+5.8	-6.1	+8.0	-8.3
295.0	2.677	+13.8	-14.4	+5.8	-6.1	+8.0	-8.3
300.0	2.616	+13.8	-14.3	+5.8	-6.0	+8.0	-8.3
305.0	2.563	+13.8	-14.3	+5.8	-6.0	+8.0	-8.3
310.0	2.516	+13.9	-14.3	+5.8	-6.0	+8.1	-8.3
315.0	2.478	+13.9	-14.3	+5.8	-6.0	+8.1	-8.4
320.0	2.443	+14.0	-14.4	+5.8	-6.0	+8.2	-8.4
325.0	2.418	+14.0	-14.4	+5.8	-6.0	+8.2	-8.4
330.0	2.403	+14.1	-14.4	+5.8	-6.0	+8.3	-8.4
335.0	2.398	+14.1	-14.3	+5.8	-5.9	+8.3	-8.4
340.0	2.407	+14.1	-14.3	+5.8	-5.9	+8.3	-8.4
345.0	2.431	+14.1	-14.3	+5.8	-5.9	+8.3	-8.4
350.0	2.428	+14.2	-14.3	+5.8	-5.9	+8.4	-8.4
360.0	2.408	+14.2	-14.4	+5.8	-5.9	+8.4	-8.5
370.0	2.362	+14.3	-14.3	+5.8	-5.8	+8.4	-8.6
380.0	2.283	+14.3	-14.2	+5.9	-5.6	+8.4	-8.6
390.0	2.175	+14.5	-14.1	+5.9	-5.5	+8.6	-8.6
400.0	2.049	+14.7	-14.0	+5.9	-5.4	+8.8	-8.6
420.0	1.776	+15.0	-13.9	+5.9	-5.3	+9.1	-8.6
440.0	1.507	+15.1	-13.9	+5.9	-5.3	+9.2	-8.7
460.0	1.263	+15.2	-14.0	+5.9	-5.3	+9.3	-8.7
480.0	1.050	+15.3	-14.0	+5.9	-5.2	+9.4	-8.8
500.0	0.8708	+15.5	-14.1	+6.0	-5.2	+9.5	-8.9
520.0	0.7211	+15.6	-14.1	+6.0	-5.2	+9.6	-9.0
540.0	0.5976	+15.7	-14.2	+6.0	-5.2	+9.7	-9.0
560.0	0.4960	+15.8	-14.3	+6.0	-5.2	+9.8	-9.1
580.0	0.4126	+16.0	-14.4	+6.0	-5.2	+9.9	-9.2
600.0	0.3444	+16.2	-14.6	+6.1	-5.2	+10.1	-9.4
620.0	0.2883	+16.4	-14.7	+6.1	-5.2	+10.2	-9.5
640.0	0.2422	+16.5	-14.9	+6.2	-5.2	+10.4	-9.7
660.0	0.2042	+16.7	-15.0	+6.2	-5.2	+10.5	-9.8
680.0	0.1728	+16.8	-15.1	+6.3	-5.3	+10.6	-9.8
700.0	0.1468	+17.0	-15.2	+6.3	-5.3	+10.7	-9.9
720.0	0.1252	+17.1	-15.3	+6.3	-5.3	+10.8	-10.0
740.0	0.1071	+17.3	-15.4	+6.4	-5.4	+10.9	-10.1
760.0	0.09190	+17.4	-15.6	+6.4	-5.4	+11.0	-10.2
780.0	0.07930	+17.5	-15.7	+6.5	-5.4	+11.1	-10.3
800.0	0.06850	+17.7	-15.8	+6.5	-5.4	+11.2	-10.4
820.0	0.05950	+17.9	-16.0	+6.5	-5.4	+11.4	-10.6
840.0	0.05180	+18.2	-16.3	+6.5	-5.5	+11.7	-10.9
860.0	0.04520	+18.5	-16.7	+6.5	-5.5	+11.9	-11.1
880.0	0.03970	+18.8	-17.0	+6.6	-5.6	+12.3	-11.5
900.0	0.03480	+19.3	-17.4	+6.7	-5.6	+12.6	-11.8

920.0	0.03070	+19.7	-17.8	+6.8	-5.6	+13.0	-12.2
940.0	0.02710	+20.1	-18.2	+6.8	-5.7	+13.3	-12.5
960.0	0.02410	+20.5	-18.6	+6.8	-5.7	+13.7	-12.9
980.0	0.02140	+20.9	-18.9	+6.9	-5.7	+14.0	-13.2
1000.0	0.01900	+21.2	-19.2	+7.0	-5.7	+14.2	-13.5

VBF Process

The total uncertainty (+-error) is the linear combination of the QCD scale (+-scale) and the PDF+alpha_s uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α_s) %	-(PDF+ α_s) %
90.0	1.710	2.7	-2.3	0.6	-0.2	2.1	-2.1
95.0	1.628	2.5	-2.5	0.4	-0.4	2.1	-2.1
100.0	1.546	2.6	-2.4	0.4	-0.3	2.2	-2.1
105.0	1.472	2.5	-2.4	0.3	-0.3	2.2	-2.1
110.0	1.398	2.8	-2.3	0.5	-0.2	2.3	-2.1
110.5	1.391	2.8	-2.3	0.5	-0.2	2.3	-2.1
111.0	1.384	2.8	-2.3	0.4	-0.2	2.3	-2.1
111.5	1.378	2.7	-2.3	0.4	-0.2	2.3	-2.1
112.0	1.371	2.7	-2.3	0.4	-0.2	2.3	-2.1
112.5	1.364	2.7	-2.3	0.3	-0.2	2.3	-2.1
113.0	1.358	2.6	-2.3	0.3	-0.2	2.3	-2.1
113.5	1.351	2.6	-2.3	0.3	-0.2	2.3	-2.1
114.0	1.345	2.6	-2.3	0.3	-0.2	2.3	-2.1
114.5	1.339	2.6	-2.3	0.2	-0.2	2.3	-2.1
115.0	1.332	2.5	-2.3	0.2	-0.2	2.3	-2.1
115.5	1.326	2.6	-2.3	0.2	-0.2	2.4	-2.1
116.0	1.319	2.6	-2.3	0.2	-0.2	2.4	-2.1
116.5	1.313	2.6	-2.4	0.2	-0.3	2.4	-2.1
117.0	1.307	2.6	-2.4	0.3	-0.3	2.4	-2.1
117.5	1.300	2.7	-2.4	0.3	-0.3	2.4	-2.1
118.0	1.294	2.7	-2.4	0.3	-0.3	2.4	-2.1
118.5	1.288	2.7	-2.4	0.3	-0.3	2.4	-2.1
119.0	1.282	2.7	-2.4	0.3	-0.3	2.4	-2.1
119.5	1.276	2.7	-2.4	0.3	-0.3	2.4	-2.1
120.0	1.269	2.8	-2.5	0.3	-0.4	2.4	-2.1
120.5	1.263	2.7	-2.4	0.3	-0.3	2.4	-2.1
121.0	1.257	2.8	-2.4	0.3	-0.3	2.4	-2.1
121.5	1.251	2.8	-2.4	0.3	-0.3	2.4	-2.1
122.0	1.246	2.7	-2.4	0.3	-0.3	2.4	-2.1
122.5	1.240	2.7	-2.4	0.3	-0.3	2.4	-2.1
123.0	1.234	2.7	-2.4	0.3	-0.3	2.4	-2.1
123.5	1.228	2.7	-2.4	0.3	-0.3	2.5	-2.1
124.0	1.222	2.7	-2.4	0.3	-0.3	2.5	-2.1
124.5	1.216	2.7	-2.4	0.3	-0.3	2.5	-2.1
125.0	1.211	2.7	-2.4	0.3	-0.3	2.5	-2.1
125.5	1.205	2.7	-2.4	0.3	-0.3	2.5	-2.1
126.0	1.199	2.8	-2.4	0.3	-0.3	2.5	-2.1
126.5	1.193	2.8	-2.4	0.3	-0.3	2.5	-2.1

127.0	1.188	2.8	-2.3	0.3	-0.2	2.5	-2.1
127.5	1.182	2.8	-2.3	0.3	-0.2	2.5	-2.1
128.0	1.176	2.8	-2.3	0.3	-0.2	2.5	-2.1
128.5	1.171	2.8	-2.3	0.3	-0.2	2.5	-2.1
129.0	1.165	2.8	-2.3	0.3	-0.2	2.5	-2.1
129.5	1.159	2.8	-2.3	0.3	-0.2	2.5	-2.1
130.0	1.154	2.8	-2.3	0.3	-0.2	2.5	-2.1
130.5	1.148	2.9	-2.3	0.3	-0.2	2.5	-2.1
131.0	1.143	2.9	-2.3	0.3	-0.2	2.5	-2.1
131.5	1.137	2.9	-2.3	0.4	-0.2	2.5	-2.1
132.0	1.132	2.9	-2.2	0.4	-0.2	2.5	-2.1
132.5	1.126	2.9	-2.2	0.4	-0.2	2.5	-2.1
133.0	1.121	3.0	-2.2	0.4	-0.1	2.5	-2.1
133.5	1.115	3.0	-2.2	0.4	-0.1	2.5	-2.1
134.0	1.110	3.0	-2.2	0.4	-0.1	2.6	-2.1
134.5	1.105	3.0	-2.2	0.4	-0.1	2.6	-2.1
135.0	1.100	3.0	-2.2	0.5	-0.1	2.6	-2.1
135.5	1.095	3.0	-2.2	0.4	-0.1	2.6	-2.1
136.0	1.090	3.0	-2.2	0.4	-0.1	2.6	-2.1
136.5	1.085	3.0	-2.2	0.4	-0.1	2.6	-2.1
137.0	1.080	2.9	-2.2	0.4	-0.1	2.6	-2.1
137.5	1.076	2.9	-2.2	0.3	-0.1	2.6	-2.1
138.0	1.071	2.9	-2.2	0.3	-0.1	2.6	-2.1
138.5	1.066	2.9	-2.2	0.3	-0.1	2.6	-2.1
139.0	1.062	2.9	-2.2	0.2	-0.1	2.6	-2.1
139.5	1.057	2.8	-2.2	0.2	-0.2	2.6	-2.1
140.0	1.052	2.8	-2.2	0.2	-0.2	2.6	-2.1
141.0	1.043	2.9	-2.2	0.2	-0.1	2.6	-2.1
142.0	1.033	2.9	-2.2	0.3	-0.1	2.7	-2.1
143.0	1.023	3.0	-2.2	0.3	-0.1	2.7	-2.1
144.0	1.013	3.1	-2.1	0.4	-0.1	2.7	-2.1
145.0	1.004	3.1	-2.1	0.4	-0.0	2.7	-2.1
146.0	0.9951	3.1	-2.1	0.4	-0.1	2.7	-2.1
147.0	0.9866	3.0	-2.2	0.3	-0.1	2.7	-2.1
148.0	0.9782	3.0	-2.2	0.3	-0.1	2.7	-2.1
149.0	0.9699	3.0	-2.2	0.3	-0.1	2.7	-2.1
150.0	0.9617	2.9	-2.2	0.2	-0.1	2.7	-2.1
151.0	0.9529	3.0	-2.2	0.2	-0.1	2.7	-2.1
152.0	0.9441	3.0	-2.2	0.3	-0.1	2.8	-2.1
153.0	0.9353	3.1	-2.1	0.3	-0.1	2.8	-2.1
154.0	0.9266	3.1	-2.1	0.3	-0.1	2.8	-2.1
155.0	0.9180	3.1	-2.1	0.3	-0.0	2.8	-2.1
156.0	0.9095	3.1	-2.1	0.3	-0.1	2.8	-2.1
157.0	0.9013	3.0	-2.2	0.2	-0.1	2.8	-2.1
158.0	0.8934	3.0	-2.2	0.2	-0.1	2.8	-2.1
159.0	0.8859	2.9	-2.2	0.1	-0.2	2.8	-2.1
160.0	0.8787	2.9	-2.3	0.1	-0.2	2.8	-2.1
162.0	0.8676	3.0	-2.2	0.1	-0.2	2.9	-2.1
164.0	0.8571	3.1	-2.2	0.2	-0.1	2.9	-2.1
166.0	0.8453	3.1	-2.2	0.2	-0.1	2.9	-2.1

168.0	0.8316	3.1	-2.2	0.2	-0.1	2.9	-2.1
170.0	0.8173	3.1	-2.2	0.2	-0.2	3.0	-2.1
172.0	0.8029	3.2	-2.2	0.2	-0.1	3.0	-2.1
174.0	0.7885	3.2	-2.1	0.2	-0.1	3.0	-2.1
176.0	0.7744	3.2	-2.2	0.2	-0.1	3.0	-2.1
178.0	0.7609	3.1	-2.3	0.1	-0.2	3.0	-2.1
180.0	0.7480	3.1	-2.4	0.0	-0.3	3.1	-2.1
182.0	0.7361	3.2	-2.3	0.1	-0.2	3.1	-2.1
184.0	0.7248	3.4	-2.2	0.3	-0.2	3.1	-2.0
186.0	0.7139	3.4	-2.2	0.3	-0.1	3.1	-2.0
188.0	0.7032	3.3	-2.2	0.2	-0.2	3.2	-2.0
190.0	0.6925	3.3	-2.2	0.1	-0.2	3.2	-2.0
192.0	0.6812	3.3	-2.3	0.1	-0.3	3.2	-2.0
194.0	0.6699	3.4	-2.4	0.1	-0.4	3.2	-2.0
196.0	0.6587	3.4	-2.4	0.1	-0.4	3.2	-2.0
198.0	0.6478	3.4	-2.4	0.1	-0.3	3.3	-2.0
200.0	0.6371	3.4	-2.3	0.1	-0.2	3.3	-2.0
202.0	0.6267	3.4	-2.3	0.1	-0.3	3.3	-2.0
204.0	0.6164	3.4	-2.3	0.1	-0.3	3.3	-2.0
206.0	0.6064	3.5	-2.3	0.1	-0.3	3.3	-2.0
208.0	0.5965	3.5	-2.4	0.1	-0.3	3.4	-2.0
210.0	0.5869	3.5	-2.4	0.1	-0.3	3.4	-2.0
212.0	0.5775	3.5	-2.4	0.1	-0.4	3.4	-2.0
214.0	0.5684	3.5	-2.4	0.1	-0.4	3.4	-2.0
216.0	0.5594	3.5	-2.4	0.1	-0.4	3.5	-2.0
218.0	0.5506	3.5	-2.4	0.0	-0.4	3.5	-2.0
220.0	0.5420	3.5	-2.5	0.0	-0.4	3.5	-2.0
222.0	0.5335	3.6	-2.5	0.0	-0.4	3.5	-2.0
224.0	0.5252	3.6	-2.5	0.1	-0.4	3.5	-2.0
226.0	0.5170	3.7	-2.5	0.1	-0.4	3.6	-2.0
228.0	0.5089	3.7	-2.4	0.1	-0.4	3.6	-2.0
230.0	0.5011	3.8	-2.4	0.1	-0.4	3.6	-2.0
232.0	0.4934	3.8	-2.5	0.1	-0.4	3.6	-2.0
234.0	0.4859	3.8	-2.5	0.1	-0.5	3.7	-2.0
236.0	0.4785	3.8	-2.5	0.1	-0.5	3.7	-2.0
238.0	0.4712	3.8	-2.5	0.1	-0.5	3.7	-2.0
240.0	0.4641	3.8	-2.5	0.1	-0.5	3.7	-2.0
242.0	0.4572	3.8	-2.5	0.1	-0.5	3.7	-2.0
244.0	0.4503	3.8	-2.6	0.1	-0.6	3.8	-2.0
246.0	0.4436	3.9	-2.6	0.1	-0.6	3.8	-2.0
248.0	0.4369	3.9	-2.6	0.1	-0.6	3.8	-2.0
250.0	0.4304	4.0	-2.6	0.1	-0.6	3.8	-2.0
252.0	0.4239	4.0	-2.6	0.2	-0.6	3.8	-2.0
254.0	0.4174	4.1	-2.5	0.2	-0.5	3.9	-2.0
256.0	0.4111	4.2	-2.5	0.3	-0.5	3.9	-2.0
258.0	0.4049	4.2	-2.4	0.3	-0.4	3.9	-2.0
260.0	0.3988	4.3	-2.4	0.3	-0.4	3.9	-2.0
262.0	0.3931	4.2	-2.4	0.3	-0.4	4.0	-2.0
264.0	0.3875	4.2	-2.5	0.2	-0.5	4.0	-2.0
266.0	0.3821	4.2	-2.5	0.2	-0.5	4.0	-2.0

268.0	0.3767	4.2	-2.5	0.2	-0.5	4.0	-2.0
270.0	0.3715	4.2	-2.6	0.1	-0.6	4.0	-2.0
272.0	0.3663	4.2	-2.6	0.1	-0.6	4.1	-2.0
274.0	0.3611	4.2	-2.6	0.1	-0.6	4.1	-2.0
276.0	0.3560	4.3	-2.6	0.2	-0.6	4.1	-2.0
278.0	0.3510	4.3	-2.7	0.2	-0.7	4.1	-2.0
280.0	0.3461	4.3	-2.7	0.2	-0.7	4.2	-2.0
282.0	0.3413	4.4	-2.7	0.2	-0.7	4.2	-2.0
284.0	0.3365	4.4	-2.7	0.2	-0.7	4.2	-2.0
286.0	0.3318	4.4	-2.7	0.2	-0.7	4.2	-2.0
288.0	0.3271	4.5	-2.6	0.2	-0.7	4.2	-2.0
290.0	0.3226	4.5	-2.6	0.2	-0.7	4.3	-2.0
295.0	0.3116	4.5	-2.7	0.2	-0.7	4.3	-2.0
300.0	0.3011	4.6	-2.7	0.2	-0.8	4.4	-2.0
305.0	0.2908	4.7	-2.7	0.2	-0.8	4.4	-2.0
310.0	0.2809	4.8	-2.7	0.3	-0.8	4.5	-2.0
315.0	0.2716	4.8	-2.7	0.3	-0.8	4.5	-2.0
320.0	0.2627	4.9	-2.7	0.3	-0.7	4.6	-1.9
325.0	0.2539	5.0	-2.7	0.3	-0.8	4.6	-1.9
330.0	0.2453	5.0	-2.8	0.3	-0.9	4.7	-1.9
335.0	0.2368	5.0	-2.8	0.3	-0.9	4.8	-1.9
340.0	0.2286	5.1	-2.9	0.3	-0.9	4.8	-1.9
345.0	0.2206	5.2	-2.9	0.3	-1.0	4.9	-1.9
350.0	0.2132	5.2	-2.9	0.3	-1.0	4.9	-1.9
360.0	0.2018	5.3	-3.0	0.3	-1.1	5.0	-1.9
370.0	0.1910	5.5	-3.0	0.4	-1.1	5.1	-1.9
380.0	0.1808	5.7	-3.0	0.4	-1.1	5.2	-1.9
390.0	0.1712	5.8	-3.0	0.4	-1.1	5.3	-1.9
400.0	0.1620	5.9	-3.0	0.4	-1.2	5.5	-1.9
420.0	0.1451	6.2	-3.1	0.5	-1.2	5.7	-1.9
440.0	0.1304	6.5	-3.1	0.6	-1.3	5.9	-1.9
460.0	0.1171	6.7	-3.2	0.6	-1.4	6.1	-1.8
480.0	0.1054	7.0	-3.3	0.6	-1.5	6.3	-1.8
500.0	0.09497	7.2	-3.4	0.7	-1.6	6.6	-1.8
520.0	0.08568	7.5	-3.4	0.7	-1.7	6.8	-1.8
540.0	0.07746	7.8	-3.5	0.8	-1.7	7.0	-1.8
560.0	0.07010	8.0	-3.5	0.8	-1.8	7.2	-1.8
580.0	0.06353	8.3	-3.7	0.9	-1.9	7.4	-1.7
600.0	0.05771	8.6	-3.8	1.0	-2.0	7.6	-1.7
620.0	0.05246	8.9	-3.8	1.0	-2.1	7.9	-1.7
640.0	0.04776	9.2	-3.8	1.1	-2.1	8.1	-1.7
660.0	0.04356	9.4	-3.9	1.1	-2.2	8.3	-1.7
680.0	0.03977	9.7	-4.0	1.2	-2.3	8.5	-1.7
700.0	0.03637	9.9	-4.0	1.2	-2.4	8.7	-1.6
720.0	0.03330	10.2	-4.1	1.3	-2.5	8.9	-1.6
740.0	0.03052	10.5	-4.2	1.4	-2.6	9.2	-1.6
760.0	0.02805	10.8	-4.2	1.4	-2.7	9.4	-1.6
780.0	0.02580	11.0	-4.3	1.4	-2.7	9.6	-1.6
800.0	0.02373	11.3	-4.3	1.5	-2.8	9.8	-1.6
820.0	0.02188	11.5	-4.4	1.5	-2.8	10.0	-1.5

840.0	0.02018	11.8	-4.5	1.5	-2.9	10.3	-1.5
860.0	0.01864	12.1	-4.5	1.6	-3.0	10.5	-1.5
880.0	0.01724	12.3	-4.6	1.7	-3.1	10.7	-1.5
900.0	0.01597	12.6	-4.6	1.7	-3.2	10.9	-1.5
920.0	0.01479	12.9	-4.7	1.8	-3.2	11.1	-1.5
940.0	0.01375	13.3	-4.7	1.9	-3.3	11.4	-1.5
960.0	0.01275	13.6	-4.8	2.0	-3.3	11.6	-1.4
980.0	0.01186	13.9	-4.8	2.1	-3.4	11.8	-1.4
1000.0	0.01104	14.2	-4.9	2.2	-3.5	12.0	-1.4

WH Production

The total uncertainty (+-error) is the linear combination of the QCD scale (+-scale) and the PDF+alpha_s uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α_s) %	-(PDF+ α_s) %
90.0	1.640	3.3	-3.8	0.3	-0.8	3.0	-3.0
95.0	1.392	3.3	-4.1	0.1	-0.9	3.2	-3.2
100.0	1.186	4.0	-3.9	0.6	-0.5	3.4	-3.4
105.0	1.018	3.8	-4.3	0.3	-0.8	3.5	-3.5
110.0	0.8754	4.1	-4.5	0.3	-0.7	3.8	-3.8
110.5	0.8623	4.1	-4.5	0.3	-0.7	3.8	-3.8
111.0	0.8495	4.1	-4.5	0.3	-0.7	3.8	-3.8
111.5	0.8368	4.2	-4.6	0.3	-0.7	3.8	-3.8
112.0	0.8244	4.2	-4.6	0.3	-0.7	3.8	-3.8
112.5	0.8122	4.2	-4.6	0.3	-0.8	3.8	-3.8
113.0	0.8003	4.2	-4.6	0.4	-0.8	3.9	-3.9
113.5	0.7885	4.2	-4.6	0.4	-0.8	3.9	-3.9
114.0	0.7770	4.3	-4.7	0.4	-0.8	3.9	-3.9
114.5	0.7657	4.3	-4.7	0.4	-0.8	3.9	-3.9
115.0	0.7546	4.3	-4.7	0.4	-0.8	3.9	-3.9
115.5	0.7439	4.2	-4.6	0.4	-0.8	3.8	-3.8
116.0	0.7333	4.2	-4.6	0.4	-0.8	3.8	-3.8
116.5	0.7230	4.2	-4.5	0.4	-0.8	3.8	-3.8
117.0	0.7129	4.1	-4.5	0.4	-0.8	3.7	-3.7
117.5	0.7030	4.1	-4.4	0.4	-0.8	3.7	-3.7
118.0	0.6933	4.0	-4.3	0.4	-0.7	3.6	-3.6
118.5	0.6837	4.0	-4.3	0.4	-0.7	3.5	-3.5
119.0	0.6744	3.9	-4.2	0.4	-0.7	3.5	-3.5
119.5	0.6651	3.9	-4.2	0.4	-0.7	3.5	-3.5
120.0	0.6561	3.8	-4.1	0.4	-0.7	3.4	-3.4
120.5	0.6472	3.8	-4.1	0.4	-0.7	3.4	-3.4
121.0	0.6384	3.8	-4.1	0.4	-0.7	3.4	-3.4
121.5	0.6297	3.8	-4.2	0.3	-0.7	3.4	-3.4
122.0	0.6212	3.8	-4.2	0.3	-0.7	3.4	-3.4
122.5	0.6129	3.8	-4.2	0.3	-0.8	3.5	-3.5
123.0	0.6046	3.7	-4.2	0.3	-0.8	3.5	-3.5
123.5	0.5965	3.7	-4.2	0.3	-0.8	3.5	-3.5
124.0	0.5885	3.7	-4.3	0.2	-0.8	3.5	-3.5
124.5	0.5806	3.7	-4.3	0.2	-0.8	3.5	-3.5

125.0	0.5729	3.7	-4.3	0.2	-0.8	3.5	-3.5
125.5	0.5652	3.7	-4.3	0.2	-0.8	3.5	-3.5
126.0	0.5576	3.7	-4.3	0.2	-0.8	3.5	-3.5
126.5	0.5501	3.7	-4.3	0.2	-0.8	3.5	-3.5
127.0	0.5428	3.7	-4.3	0.2	-0.8	3.5	-3.5
127.5	0.5355	3.8	-4.3	0.2	-0.8	3.5	-3.5
128.0	0.5284	3.8	-4.3	0.3	-0.8	3.5	-3.5
128.5	0.5213	3.8	-4.3	0.3	-0.8	3.5	-3.5
129.0	0.5144	3.8	-4.3	0.3	-0.8	3.5	-3.5
129.5	0.5075	3.8	-4.3	0.3	-0.8	3.5	-3.5
130.0	0.5008	3.8	-4.3	0.3	-0.8	3.5	-3.5
130.5	0.4942	3.8	-4.2	0.3	-0.8	3.5	-3.5
131.0	0.4877	3.9	-4.2	0.4	-0.7	3.5	-3.5
131.5	0.4813	3.9	-4.2	0.4	-0.7	3.5	-3.5
132.0	0.4749	3.9	-4.1	0.5	-0.6	3.5	-3.5
132.5	0.4687	4.0	-4.1	0.5	-0.6	3.5	-3.5
133.0	0.4626	4.0	-4.0	0.5	-0.6	3.4	-3.4
133.5	0.4566	4.0	-4.0	0.6	-0.5	3.4	-3.4
134.0	0.4506	4.0	-3.9	0.6	-0.5	3.4	-3.4
134.5	0.4448	4.1	-3.9	0.7	-0.4	3.4	-3.4
135.0	0.4390	4.1	-3.8	0.7	-0.4	3.4	-3.4
135.5	0.4333	4.1	-3.8	0.7	-0.4	3.4	-3.4
136.0	0.4277	4.1	-3.8	0.7	-0.4	3.4	-3.4
136.5	0.4221	4.1	-3.9	0.6	-0.4	3.4	-3.4
137.0	0.4167	4.1	-3.9	0.6	-0.4	3.4	-3.4
137.5	0.4113	4.1	-3.9	0.6	-0.4	3.5	-3.5
138.0	0.4060	4.0	-3.9	0.6	-0.5	3.5	-3.5
138.5	0.4008	4.0	-3.9	0.6	-0.5	3.5	-3.5
139.0	0.3957	4.0	-4.0	0.5	-0.5	3.5	-3.5
139.5	0.3907	4.0	-4.0	0.5	-0.5	3.5	-3.5
140.0	0.3857	4.0	-4.0	0.5	-0.5	3.5	-3.5
141.0	0.3761	4.0	-4.1	0.4	-0.6	3.6	-3.6
142.0	0.3669	4.0	-4.2	0.4	-0.6	3.6	-3.6
143.0	0.3579	4.0	-4.4	0.3	-0.7	3.7	-3.7
144.0	0.3491	4.0	-4.5	0.3	-0.7	3.7	-3.7
145.0	0.3406	4.0	-4.6	0.2	-0.8	3.8	-3.8
146.0	0.3321	3.9	-4.5	0.2	-0.8	3.7	-3.7
147.0	0.3238	3.9	-4.4	0.3	-0.8	3.6	-3.6
148.0	0.3157	3.8	-4.3	0.3	-0.8	3.5	-3.5
149.0	0.3078	3.8	-4.2	0.4	-0.8	3.4	-3.4
150.0	0.3001	3.7	-4.1	0.4	-0.8	3.3	-3.3
151.0	0.2928	3.8	-4.1	0.4	-0.8	3.3	-3.3
152.0	0.2856	3.8	-4.2	0.4	-0.8	3.4	-3.4
153.0	0.2785	3.9	-4.2	0.5	-0.8	3.4	-3.4
154.0	0.2715	3.9	-4.3	0.5	-0.8	3.5	-3.5
155.0	0.2646	4.0	-4.3	0.5	-0.8	3.5	-3.5
156.0	0.2569	4.1	-4.3	0.5	-0.8	3.6	-3.6
157.0	0.2494	4.1	-4.4	0.5	-0.8	3.6	-3.6
158.0	0.2422	4.2	-4.4	0.5	-0.7	3.7	-3.7
159.0	0.2354	4.2	-4.5	0.5	-0.7	3.7	-3.7

160.0	0.2291	4.3	-4.5	0.5	-0.7	3.8	-3.8
162.0	0.2209	4.2	-4.4	0.5	-0.7	3.7	-3.7
164.0	0.2140	4.1	-4.3	0.5	-0.7	3.6	-3.6
166.0	0.2063	4.1	-4.3	0.5	-0.7	3.6	-3.6
168.0	0.1973	4.2	-4.4	0.5	-0.7	3.7	-3.7
170.0	0.1883	4.3	-4.5	0.5	-0.7	3.8	-3.8
172.0	0.1802	4.2	-4.7	0.4	-0.9	3.8	-3.8
174.0	0.1726	4.1	-4.8	0.3	-1.0	3.8	-3.8
176.0	0.1653	4.1	-4.7	0.4	-1.0	3.7	-3.7
178.0	0.1585	4.1	-4.4	0.5	-0.8	3.6	-3.6
180.0	0.1521	4.1	-4.1	0.6	-0.6	3.5	-3.5
182.0	0.1465	4.0	-4.2	0.5	-0.7	3.5	-3.5
184.0	0.1413	3.9	-4.3	0.4	-0.8	3.5	-3.5
186.0	0.1360	4.0	-4.4	0.4	-0.9	3.5	-3.5
188.0	0.1305	4.1	-4.4	0.5	-0.8	3.6	-3.6
190.0	0.1253	4.2	-4.4	0.5	-0.7	3.7	-3.7
192.0	0.1205	4.3	-4.4	0.6	-0.7	3.7	-3.7
194.0	0.1160	4.4	-4.3	0.7	-0.6	3.7	-3.7
196.0	0.1116	4.4	-4.4	0.6	-0.7	3.7	-3.7
198.0	0.1073	4.3	-4.6	0.5	-0.8	3.8	-3.8
200.0	0.1032	4.2	-4.8	0.4	-1.0	3.8	-3.8
202.0	0.09932	4.2	-4.7	0.4	-0.9	3.8	-3.8
204.0	0.09563	4.2	-4.6	0.4	-0.9	3.8	-3.8
206.0	0.09212	4.2	-4.6	0.5	-0.8	3.7	-3.7
208.0	0.08877	4.2	-4.5	0.5	-0.8	3.7	-3.7
210.0	0.08557	4.2	-4.4	0.5	-0.7	3.7	-3.7
212.0	0.08248	4.2	-4.4	0.5	-0.7	3.7	-3.7
214.0	0.07953	4.1	-4.5	0.4	-0.8	3.7	-3.7
216.0	0.07671	4.1	-4.5	0.4	-0.8	3.7	-3.7
218.0	0.07400	4.0	-4.6	0.3	-0.9	3.7	-3.7
220.0	0.07142	4.0	-4.6	0.3	-0.9	3.7	-3.7
222.0	0.06895	4.2	-4.7	0.4	-0.9	3.9	-3.9
224.0	0.06658	4.5	-4.8	0.5	-0.8	4.0	-4.0
226.0	0.06432	4.7	-5.0	0.5	-0.8	4.2	-4.2
228.0	0.06214	5.0	-5.1	0.6	-0.7	4.3	-4.3
230.0	0.06006	5.2	-5.2	0.7	-0.7	4.5	-4.5
232.0	0.05805	5.1	-5.1	0.7	-0.7	4.4	-4.4
234.0	0.05611	4.9	-5.0	0.6	-0.7	4.3	-4.3
236.0	0.05425	4.8	-4.9	0.6	-0.7	4.2	-4.2
238.0	0.05247	4.6	-4.8	0.5	-0.7	4.1	-4.1
240.0	0.05075	4.5	-4.7	0.5	-0.7	4.0	-4.0
242.0	0.04909	4.5	-4.7	0.5	-0.7	4.0	-4.0
244.0	0.04750	4.5	-4.7	0.5	-0.7	4.0	-4.0
246.0	0.04597	4.5	-4.7	0.5	-0.7	4.0	-4.0
248.0	0.04450	4.5	-4.7	0.5	-0.7	4.0	-4.0
250.0	0.04308	4.5	-4.7	0.5	-0.7	4.0	-4.0
252.0	0.04171	4.6	-4.7	0.6	-0.7	4.0	-4.0
254.0	0.04040	4.6	-4.7	0.6	-0.7	4.0	-4.0
256.0	0.03913	4.7	-4.7	0.7	-0.7	4.0	-4.0
258.0	0.03791	4.7	-4.7	0.7	-0.7	4.0	-4.0

260.0	0.03674	4.8	-4.7	0.8	-0.7	4.0	-4.0
262.0	0.03561	4.7	-4.7	0.8	-0.7	4.0	-4.0
264.0	0.03451	4.6	-4.7	0.7	-0.8	3.9	-3.9
266.0	0.03346	4.6	-4.7	0.7	-0.8	3.9	-3.9
268.0	0.03244	4.5	-4.7	0.6	-0.9	3.8	-3.8
270.0	0.03146	4.4	-4.7	0.6	-0.9	3.8	-3.8
272.0	0.03050	4.5	-4.8	0.6	-0.9	3.9	-3.9
274.0	0.02958	4.6	-5.0	0.5	-0.9	4.0	-4.0
276.0	0.02869	4.6	-5.1	0.5	-1.0	4.2	-4.2
278.0	0.02783	4.7	-5.3	0.4	-1.0	4.3	-4.3
280.0	0.02700	4.8	-5.4	0.4	-1.0	4.4	-4.4
282.0	0.02621	4.8	-5.3	0.5	-1.0	4.4	-4.4
284.0	0.02545	4.8	-5.2	0.5	-0.9	4.3	-4.3
286.0	0.02472	4.9	-5.2	0.6	-0.9	4.3	-4.3
288.0	0.02401	4.9	-5.1	0.6	-0.8	4.2	-4.2
290.0	0.02333	4.9	-5.0	0.7	-0.8	4.2	-4.2
295.0	0.02168	5.0	-5.2	0.6	-0.9	4.3	-4.3
300.0	0.02018	5.1	-5.4	0.6	-0.9	4.5	-4.5

ZH Production

The total uncertainty (+-error) is the linear combination of the QCD scale (+-scale) and the PDF+alpha_s uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α_s) %	-(PDF+ α_s) %
90.0	0.8597	3.9	-4.0	0.9	-1.0	3.0	-3.0
95.0	0.7348	4.6	-4.7	1.0	-1.1	3.6	-3.6
100.0	0.6313	4.5	-4.6	1.1	-1.2	3.4	-3.4
105.0	0.5449	5.0	-5.3	1.3	-1.6	3.7	-3.7
110.0	0.4721	5.3	-5.3	1.2	-1.2	4.1	-4.1
110.5	0.4655	5.3	-5.3	1.2	-1.2	4.1	-4.1
111.0	0.4589	5.3	-5.3	1.2	-1.2	4.1	-4.1
111.5	0.4525	5.4	-5.3	1.2	-1.2	4.1	-4.1
112.0	0.4462	5.4	-5.3	1.2	-1.2	4.1	-4.1
112.5	0.4400	5.4	-5.4	1.2	-1.2	4.2	-4.2
113.0	0.4340	5.4	-5.4	1.3	-1.2	4.2	-4.2
113.5	0.4280	5.4	-5.4	1.3	-1.2	4.2	-4.2
114.0	0.4221	5.5	-5.4	1.3	-1.2	4.2	-4.2
114.5	0.4164	5.5	-5.4	1.3	-1.2	4.2	-4.2
115.0	0.4107	5.5	-5.4	1.3	-1.2	4.2	-4.2
115.5	0.4052	5.5	-5.3	1.3	-1.2	4.1	-4.1
116.0	0.3998	5.4	-5.3	1.3	-1.2	4.1	-4.1
116.5	0.3945	5.3	-5.2	1.4	-1.2	4.0	-4.0
117.0	0.3893	5.3	-5.1	1.4	-1.2	3.9	-3.9
117.5	0.3842	5.2	-5.1	1.4	-1.2	3.8	-3.8
118.0	0.3791	5.2	-5.0	1.4	-1.2	3.8	-3.8
118.5	0.3742	5.2	-4.9	1.4	-1.2	3.7	-3.7
119.0	0.3693	5.1	-4.8	1.5	-1.2	3.6	-3.6
119.5	0.3645	5.1	-4.8	1.5	-1.2	3.6	-3.6
120.0	0.3598	5.0	-4.7	1.5	-1.2	3.5	-3.5
120.5	0.3551	5.0	-4.7	1.5	-1.2	3.5	-3.5

121.0	0.3505	5.0	-4.8	1.5	-1.3	3.5	-3.5
121.5	0.3459	5.0	-4.8	1.5	-1.3	3.5	-3.5
122.0	0.3414	5.0	-4.9	1.5	-1.4	3.5	-3.5
122.5	0.3370	4.9	-4.9	1.5	-1.4	3.5	-3.5
123.0	0.3326	4.9	-4.9	1.4	-1.4	3.5	-3.5
123.5	0.3283	4.9	-5.0	1.4	-1.5	3.5	-3.5
124.0	0.3241	4.9	-5.0	1.4	-1.5	3.5	-3.5
124.5	0.3199	4.9	-5.1	1.4	-1.6	3.5	-3.5
125.0	0.3158	4.9	-5.1	1.4	-1.6	3.5	-3.5
125.5	0.3117	4.9	-5.1	1.4	-1.6	3.5	-3.5
126.0	0.3077	5.0	-5.1	1.4	-1.6	3.5	-3.5
126.5	0.3038	5.0	-5.1	1.4	-1.5	3.6	-3.6
127.0	0.2999	5.0	-5.1	1.4	-1.5	3.6	-3.6
127.5	0.2961	5.1	-5.1	1.5	-1.5	3.6	-3.6
128.0	0.2923	5.1	-5.1	1.5	-1.5	3.6	-3.6
128.5	0.2886	5.1	-5.1	1.5	-1.5	3.6	-3.6
129.0	0.2849	5.1	-5.1	1.5	-1.4	3.7	-3.7
129.5	0.2813	5.2	-5.1	1.5	-1.4	3.7	-3.7
130.0	0.2778	5.2	-5.1	1.5	-1.4	3.7	-3.7
130.5	0.2743	5.2	-5.1	1.5	-1.4	3.7	-3.7
131.0	0.2709	5.2	-5.1	1.5	-1.4	3.7	-3.7
131.5	0.2675	5.2	-5.1	1.6	-1.4	3.7	-3.7
132.0	0.2642	5.2	-5.1	1.6	-1.4	3.7	-3.7
132.5	0.2609	5.2	-5.1	1.6	-1.4	3.7	-3.7
133.0	0.2577	5.3	-5.0	1.6	-1.4	3.6	-3.6
133.5	0.2545	5.3	-5.0	1.6	-1.4	3.6	-3.6
134.0	0.2514	5.3	-5.0	1.7	-1.4	3.6	-3.6
134.5	0.2483	5.3	-5.0	1.7	-1.4	3.6	-3.6
135.0	0.2453	5.3	-5.0	1.7	-1.4	3.6	-3.6
135.5	0.2423	5.3	-5.0	1.7	-1.4	3.6	-3.6
136.0	0.2393	5.3	-5.1	1.7	-1.4	3.6	-3.6
136.5	0.2364	5.3	-5.1	1.6	-1.5	3.6	-3.6
137.0	0.2336	5.3	-5.1	1.6	-1.5	3.6	-3.6
137.5	0.2307	5.2	-5.2	1.6	-1.5	3.7	-3.7
138.0	0.2279	5.2	-5.2	1.6	-1.5	3.7	-3.7
138.5	0.2252	5.2	-5.2	1.6	-1.5	3.7	-3.7
139.0	0.2225	5.2	-5.2	1.5	-1.6	3.7	-3.7
139.5	0.2198	5.2	-5.3	1.5	-1.6	3.7	-3.7
140.0	0.2172	5.2	-5.3	1.5	-1.6	3.7	-3.7
141.0	0.2121	5.3	-5.4	1.6	-1.6	3.8	-3.8
142.0	0.2071	5.4	-5.5	1.6	-1.7	3.8	-3.8
143.0	0.2023	5.6	-5.6	1.7	-1.7	3.9	-3.9
144.0	0.1976	5.7	-5.7	1.7	-1.8	3.9	-3.9
145.0	0.1930	5.8	-5.8	1.8	-1.8	4.0	-4.0
146.0	0.1884	5.7	-5.7	1.8	-1.8	3.9	-3.9
147.0	0.1840	5.6	-5.6	1.8	-1.7	3.8	-3.8
148.0	0.1796	5.6	-5.4	1.8	-1.7	3.8	-3.8
149.0	0.1754	5.5	-5.3	1.8	-1.6	3.7	-3.7
150.0	0.1713	5.4	-5.2	1.8	-1.6	3.6	-3.6
151.0	0.1674	5.5	-5.2	1.9	-1.6	3.6	-3.6

152.0	0.1636	5.5	-5.2	1.9	-1.6	3.6	-3.6
153.0	0.1599	5.6	-5.2	2.0	-1.6	3.6	-3.6
154.0	0.1562	5.6	-5.2	2.0	-1.6	3.6	-3.6
155.0	0.1525	5.7	-5.2	2.1	-1.6	3.6	-3.6
156.0	0.1484	5.8	-5.3	2.1	-1.6	3.7	-3.7
157.0	0.1444	5.8	-5.4	2.1	-1.6	3.8	-3.8
158.0	0.1405	5.9	-5.5	2.0	-1.7	3.8	-3.8
159.0	0.1368	5.9	-5.6	2.0	-1.7	3.9	-3.9
160.0	0.1334	6.0	-5.7	2.0	-1.7	4.0	-4.0
162.0	0.1289	6.1	-5.7	2.0	-1.7	4.0	-4.0
164.0	0.1252	6.2	-5.8	2.1	-1.7	4.1	-4.1
166.0	0.1208	6.2	-5.9	2.1	-1.7	4.1	-4.1
168.0	0.1157	6.3	-6.0	2.2	-1.8	4.2	-4.2
170.0	0.1106	6.4	-6.1	2.2	-1.9	4.2	-4.2
172.0	0.1060	6.3	-6.1	2.2	-1.9	4.2	-4.2
174.0	0.1016	6.2	-6.0	2.1	-1.9	4.1	-4.1
176.0	0.09732	6.2	-5.9	2.1	-1.9	4.0	-4.0
178.0	0.09310	6.1	-5.8	2.2	-1.9	3.9	-3.9
180.0	0.08917	6.0	-5.7	2.2	-1.9	3.8	-3.8
182.0	0.08589	6.0	-5.7	2.2	-1.9	3.8	-3.8
184.0	0.08286	6.1	-5.8	2.3	-2.0	3.8	-3.8
186.0	0.07981	6.1	-5.8	2.3	-2.0	3.8	-3.8
188.0	0.07668	6.1	-5.9	2.2	-2.1	3.9	-3.9
190.0	0.07366	6.1	-6.0	2.2	-2.1	3.9	-3.9
192.0	0.07089	6.2	-6.0	2.2	-2.0	3.9	-3.9
194.0	0.06826	6.3	-5.9	2.3	-1.9	4.0	-4.0
196.0	0.06573	6.3	-5.9	2.3	-1.9	4.0	-4.0
198.0	0.06330	6.4	-6.0	2.3	-1.9	4.1	-4.1
200.0	0.06096	6.4	-6.0	2.3	-1.9	4.1	-4.1
202.0	0.05872	6.4	-6.0	2.3	-1.9	4.1	-4.1
204.0	0.05658	6.4	-6.1	2.2	-1.9	4.1	-4.1
206.0	0.05453	6.3	-6.1	2.2	-2.0	4.2	-4.2
208.0	0.05256	6.3	-6.2	2.1	-2.0	4.2	-4.2
210.0	0.05068	6.3	-6.2	2.1	-2.0	4.2	-4.2
212.0	0.04887	6.3	-6.2	2.1	-2.0	4.2	-4.2
214.0	0.04713	6.3	-6.2	2.1	-2.0	4.2	-4.2
216.0	0.04547	6.4	-6.1	2.2	-1.9	4.2	-4.2
218.0	0.04388	6.4	-6.1	2.2	-1.9	4.2	-4.2
220.0	0.04235	6.4	-6.1	2.2	-1.9	4.2	-4.2
222.0	0.04089	6.5	-6.2	2.2	-1.9	4.3	-4.3
224.0	0.03949	6.6	-6.3	2.2	-1.9	4.4	-4.4
226.0	0.03814	6.7	-6.5	2.1	-1.9	4.6	-4.6
228.0	0.03684	6.8	-6.6	2.1	-1.9	4.7	-4.7
230.0	0.03560	6.9	-6.7	2.1	-1.9	4.8	-4.8
232.0	0.03439	6.8	-6.6	2.1	-1.9	4.7	-4.7
234.0	0.03323	6.7	-6.5	2.0	-1.9	4.6	-4.6
236.0	0.03210	6.5	-6.4	2.0	-1.8	4.6	-4.6
238.0	0.03103	6.4	-6.3	1.9	-1.8	4.5	-4.5
240.0	0.02999	6.3	-6.2	1.9	-1.8	4.4	-4.4
242.0	0.02900	6.3	-6.1	1.9	-1.8	4.4	-4.4

244.0	0.02805	6.3	-6.0	1.9	-1.7	4.3	-4.3
246.0	0.02713	6.2	-6.0	2.0	-1.7	4.3	-4.3
248.0	0.02625	6.2	-5.9	2.0	-1.6	4.2	-4.2
250.0	0.02540	6.2	-5.8	2.0	-1.6	4.2	-4.2
252.0	0.02458	6.2	-5.9	2.0	-1.6	4.3	-4.3
254.0	0.02379	6.2	-6.0	1.9	-1.6	4.3	-4.3
256.0	0.02302	6.3	-6.0	1.9	-1.7	4.4	-4.4
258.0	0.02229	6.3	-6.1	1.8	-1.7	4.4	-4.4
260.0	0.02158	6.3	-6.2	1.8	-1.7	4.5	-4.5
262.0	0.02089	6.2	-6.2	1.8	-1.7	4.5	-4.5
264.0	0.02023	6.2	-6.1	1.8	-1.7	4.4	-4.4
266.0	0.01960	6.1	-6.1	1.7	-1.7	4.4	-4.4
268.0	0.01898	6.1	-6.0	1.7	-1.7	4.3	-4.3
270.0	0.01839	6.0	-6.0	1.7	-1.7	4.3	-4.3
272.0	0.01782	6.1	-6.0	1.7	-1.6	4.4	-4.4
274.0	0.01727	6.2	-6.1	1.7	-1.5	4.5	-4.5
276.0	0.01675	6.3	-6.1	1.6	-1.5	4.7	-4.7
278.0	0.01624	6.4	-6.2	1.6	-1.4	4.8	-4.8
280.0	0.01575	6.5	-6.2	1.6	-1.3	4.9	-4.9
282.0	0.01528	6.4	-6.1	1.6	-1.3	4.8	-4.8
284.0	0.01482	6.3	-6.0	1.6	-1.3	4.7	-4.7
286.0	0.01438	6.2	-6.0	1.5	-1.3	4.7	-4.7
288.0	0.01396	6.1	-5.9	1.5	-1.3	4.6	-4.6
290.0	0.01355	6.0	-5.8	1.5	-1.3	4.5	-4.5
295.0	0.01257	6.2	-6.0	1.5	-1.2	4.8	-4.8
300.0	0.01169	6.4	-6.2	1.4	-1.2	5.0	-5.0

tH associate production

The total uncertainty (+-error) is the linear combination of the QCD scale (+-scale) and the PDF+alpha_s uncertainties.

m _H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α _s) %	-(PDF+ α _s) %
90.0	0.2162	12.5	-18.1	4.1	-9.7	8.4	-8.4
95.0	0.1880	12.4	-18.0	4.0	-9.6	8.4	-8.4
100.0	0.1638	12.3	-18.0	3.9	-9.6	8.4	-8.4
105.0	0.1433	12.1	-17.9	3.7	-9.5	8.4	-8.4
110.0	0.1257	12.1	-18.0	3.6	-9.5	8.5	-8.5
110.5	0.1241	12.1	-18.0	3.6	-9.5	8.5	-8.5
111.0	0.1225	12.1	-18.0	3.6	-9.5	8.5	-8.5
111.5	0.1209	12.0	-17.9	3.6	-9.5	8.5	-8.5
112.0	0.1194	12.0	-17.9	3.6	-9.5	8.5	-8.5
112.5	0.1179	12.0	-17.9	3.5	-9.4	8.4	-8.4
113.0	0.1164	12.0	-17.9	3.5	-9.4	8.4	-8.4
113.5	0.1149	12.0	-17.9	3.5	-9.4	8.4	-8.4
114.0	0.1134	11.9	-17.8	3.5	-9.4	8.4	-8.4
114.5	0.1120	11.9	-17.8	3.5	-9.4	8.4	-8.4
115.0	0.1106	11.9	-17.8	3.5	-9.4	8.4	-8.4
115.5	0.1092	11.9	-17.8	3.5	-9.4	8.4	-8.4
116.0	0.1078	11.9	-17.8	3.5	-9.4	8.4	-8.4
116.5	0.1065	11.9	-17.8	3.5	-9.4	8.4	-8.4

117.0	0.1051	11.9	-17.8	3.5	-9.4	8.4	-8.4
117.5	0.1038	11.8	-17.8	3.5	-9.4	8.4	-8.4
118.0	0.1025	11.8	-17.8	3.4	-9.4	8.4	-8.4
118.5	0.1013	11.8	-17.8	3.4	-9.4	8.4	-8.4
119.0	0.1000	11.8	-17.8	3.4	-9.4	8.4	-8.4
119.5	0.09878	11.8	-17.8	3.4	-9.4	8.4	-8.4
120.0	0.09756	11.8	-17.8	3.4	-9.4	8.4	-8.4
120.5	0.09636	11.8	-17.8	3.4	-9.4	8.4	-8.4
121.0	0.09518	11.8	-17.8	3.4	-9.4	8.4	-8.4
121.5	0.09402	11.8	-17.8	3.4	-9.4	8.4	-8.4
122.0	0.09287	11.8	-17.8	3.4	-9.4	8.4	-8.4
122.5	0.09174	11.8	-17.8	3.3	-9.4	8.4	-8.4
123.0	0.09063	11.8	-17.8	3.3	-9.3	8.5	-8.5
123.5	0.08954	11.8	-17.8	3.3	-9.3	8.5	-8.5
124.0	0.08846	11.8	-17.8	3.3	-9.3	8.5	-8.5
124.5	0.08739	11.8	-17.8	3.3	-9.3	8.5	-8.5
125.0	0.08634	11.8	-17.8	3.3	-9.3	8.5	-8.5
125.5	0.08530	11.8	-17.8	3.3	-9.3	8.5	-8.5
126.0	0.08428	11.8	-17.8	3.3	-9.3	8.5	-8.5
126.5	0.08327	11.7	-17.8	3.3	-9.3	8.5	-8.5
127.0	0.08227	11.7	-17.8	3.3	-9.3	8.5	-8.5
127.5	0.08129	11.7	-17.8	3.2	-9.3	8.4	-8.4
128.0	0.08032	11.7	-17.7	3.2	-9.3	8.4	-8.4
128.5	0.07937	11.7	-17.7	3.2	-9.3	8.4	-8.4
129.0	0.07842	11.6	-17.7	3.2	-9.3	8.4	-8.4
129.5	0.07750	11.6	-17.7	3.2	-9.3	8.4	-8.4
130.0	0.07658	11.6	-17.7	3.2	-9.3	8.4	-8.4
130.5	0.07568	11.6	-17.7	3.2	-9.3	8.4	-8.4
131.0	0.07479	11.6	-17.7	3.2	-9.3	8.4	-8.4
131.5	0.07391	11.6	-17.7	3.2	-9.3	8.4	-8.4
132.0	0.07304	11.6	-17.7	3.2	-9.3	8.4	-8.4
132.5	0.07219	11.5	-17.6	3.2	-9.2	8.4	-8.4
133.0	0.07135	11.5	-17.6	3.1	-9.2	8.4	-8.4
133.5	0.07052	11.5	-17.6	3.1	-9.2	8.4	-8.4
134.0	0.06970	11.5	-17.6	3.1	-9.2	8.4	-8.4
134.5	0.06890	11.5	-17.6	3.1	-9.2	8.4	-8.4
135.0	0.06810	11.5	-17.6	3.1	-9.2	8.4	-8.4
135.5	0.06731	11.5	-17.6	3.1	-9.2	8.4	-8.4
136.0	0.06654	11.5	-17.6	3.1	-9.2	8.4	-8.4
136.5	0.06577	11.5	-17.6	3.1	-9.2	8.4	-8.4
137.0	0.06502	11.5	-17.6	3.1	-9.2	8.4	-8.4
137.5	0.06428	11.4	-17.6	3.0	-9.2	8.4	-8.4
138.0	0.06355	11.4	-17.6	3.0	-9.2	8.4	-8.4
138.5	0.06282	11.4	-17.6	3.0	-9.2	8.4	-8.4
139.0	0.06211	11.4	-17.6	3.0	-9.2	8.4	-8.4
139.5	0.06141	11.4	-17.6	3.0	-9.2	8.4	-8.4
140.0	0.06072	11.4	-17.6	3.0	-9.2	8.4	-8.4
141.0	0.05937	11.4	-17.6	3.0	-9.2	8.4	-8.4
142.0	0.05807	11.4	-17.6	3.0	-9.2	8.4	-8.4
143.0	0.05680	11.4	-17.6	2.9	-9.1	8.5	-8.5

144.0	0.05556	11.4	-17.6	2.9	-9.1	8.5	-8.5
145.0	0.05435	11.4	-17.6	2.9	-9.1	8.5	-8.5
146.0	0.05316	11.4	-17.6	2.9	-9.1	8.5	-8.5
147.0	0.05200	11.4	-17.6	2.9	-9.1	8.5	-8.5
148.0	0.05087	11.3	-17.5	2.9	-9.1	8.4	-8.4
149.0	0.04976	11.3	-17.5	2.9	-9.1	8.4	-8.4
150.0	0.04869	11.3	-17.5	2.9	-9.1	8.4	-8.4
151.0	0.04765	11.3	-17.5	2.9	-9.1	8.4	-8.4
152.0	0.04663	11.3	-17.6	2.9	-9.1	8.5	-8.5
153.0	0.04564	11.4	-17.6	2.8	-9.1	8.5	-8.5
154.0	0.04468	11.4	-17.7	2.8	-9.1	8.6	-8.6
155.0	0.04374	11.4	-17.7	2.8	-9.1	8.6	-8.6
156.0	0.04283	11.4	-17.7	2.8	-9.1	8.6	-8.6
157.0	0.04194	11.4	-17.7	2.8	-9.1	8.6	-8.6
158.0	0.04108	11.4	-17.7	2.8	-9.1	8.6	-8.6
159.0	0.04024	11.4	-17.7	2.8	-9.1	8.6	-8.6
160.0	0.03942	11.4	-17.7	2.8	-9.1	8.6	-8.6
162.0	0.03783	11.4	-17.7	2.8	-9.1	8.6	-8.6
164.0	0.03632	11.3	-17.7	2.7	-9.1	8.6	-8.6
166.0	0.03488	11.3	-17.7	2.7	-9.1	8.6	-8.6
168.0	0.03350	11.3	-17.6	2.7	-9.0	8.6	-8.6
170.0	0.03219	11.3	-17.6	2.7	-9.0	8.6	-8.6
172.0	0.03094	11.3	-17.6	2.7	-9.0	8.6	-8.6
174.0	0.02975	11.2	-17.6	2.6	-9.0	8.6	-8.6
176.0	0.02862	11.2	-17.6	2.6	-9.0	8.6	-8.6
178.0	0.02755	11.2	-17.6	2.6	-9.0	8.6	-8.6
180.0	0.02652	11.2	-17.6	2.6	-9.0	8.6	-8.6
182.0	0.02553	11.2	-17.6	2.6	-9.0	8.6	-8.6
184.0	0.02459	11.3	-17.7	2.6	-9.0	8.7	-8.7
186.0	0.02370	11.3	-17.7	2.6	-9.0	8.7	-8.7
188.0	0.02286	11.3	-17.7	2.6	-9.0	8.7	-8.7
190.0	0.02206	11.3	-17.7	2.6	-9.0	8.7	-8.7
192.0	0.02128	11.3	-17.7	2.6	-9.0	8.7	-8.7
194.0	0.02052	11.3	-17.7	2.6	-9.0	8.7	-8.7
196.0	0.01981	11.3	-17.7	2.6	-9.0	8.7	-8.7
198.0	0.01913	11.3	-17.8	2.6	-9.1	8.7	-8.7
200.0	0.01849	11.3	-17.8	2.6	-9.1	8.7	-8.7
202.0	0.01787	11.4	-17.9	2.6	-9.1	8.7	-8.7
204.0	0.01727	11.5	-17.9	2.7	-9.1	8.8	-8.8
206.0	0.01670	11.5	-18.0	2.7	-9.2	8.8	-8.8
208.0	0.01615	11.6	-18.0	2.8	-9.2	8.9	-8.9
210.0	0.01562	11.7	-18.1	2.8	-9.2	8.9	-8.9
212.0	0.01512	11.7	-18.1	2.8	-9.2	8.9	-8.9
214.0	0.01463	11.7	-18.1	2.8	-9.2	8.9	-8.9
216.0	0.01417	11.8	-18.2	2.9	-9.3	8.9	-8.9
218.0	0.01373	11.8	-18.2	2.9	-9.3	8.9	-8.9
220.0	0.01330	11.8	-18.2	2.9	-9.3	8.9	-8.9
222.0	0.01289	11.9	-18.2	3.0	-9.3	8.9	-8.9
224.0	0.01251	12.0	-18.3	3.0	-9.3	8.9	-8.9
226.0	0.01213	12.0	-18.3	3.1	-9.4	9.0	-9.0

228.0	0.01178	12.1	-18.4	3.1	-9.4	9.0	-9.0
230.0	0.01143	12.2	-18.4	3.2	-9.4	9.0	-9.0
232.0	0.01110	12.2	-18.4	3.2	-9.4	9.0	-9.0
234.0	0.01077	12.2	-18.5	3.2	-9.4	9.0	-9.0
236.0	0.01046	12.3	-18.5	3.2	-9.5	9.1	-9.1
238.0	0.01016	12.3	-18.6	3.2	-9.5	9.1	-9.1
240.0	0.009873	12.3	-18.6	3.2	-9.5	9.1	-9.1
242.0	0.009597	12.4	-18.6	3.3	-9.5	9.1	-9.1
244.0	0.009331	12.4	-18.7	3.3	-9.6	9.1	-9.1
246.0	0.009076	12.5	-18.7	3.4	-9.6	9.1	-9.1
248.0	0.008830	12.5	-18.8	3.4	-9.7	9.1	-9.1
250.0	0.008593	12.6	-18.8	3.5	-9.7	9.1	-9.1
252.0	0.008363	12.7	-18.8	3.6	-9.7	9.1	-9.1
254.0	0.008142	12.7	-18.8	3.7	-9.8	9.1	-9.1
256.0	0.007928	12.8	-18.9	3.7	-9.8	9.0	-9.0
258.0	0.007722	12.8	-18.9	3.8	-9.9	9.0	-9.0
260.0	0.007524	12.9	-18.9	3.9	-9.9	9.0	-9.0
262.0	0.007333	13.0	-19.0	4.0	-9.9	9.1	-9.1
264.0	0.007149	13.2	-19.1	4.1	-10.0	9.1	-9.1
266.0	0.006972	13.3	-19.2	4.1	-10.0	9.2	-9.2
268.0	0.006801	13.5	-19.3	4.2	-10.1	9.2	-9.2
270.0	0.006636	13.6	-19.4	4.3	-10.1	9.3	-9.3
272.0	0.006476	13.7	-19.5	4.4	-10.2	9.3	-9.3
274.0	0.006322	13.8	-19.6	4.5	-10.2	9.4	-9.4
276.0	0.006173	14.0	-19.7	4.5	-10.3	9.4	-9.4
278.0	0.006028	14.1	-19.8	4.6	-10.3	9.5	-9.5
280.0	0.005889	14.2	-19.9	4.7	-10.4	9.5	-9.5
282.0	0.005754	14.3	-20.0	4.8	-10.4	9.5	-9.5
284.0	0.005623	14.5	-20.1	4.9	-10.5	9.6	-9.6
286.0	0.005497	14.6	-20.1	5.0	-10.5	9.6	-9.6
288.0	0.005374	14.8	-20.2	5.1	-10.6	9.7	-9.7
290.0	0.005256	14.9	-20.3	5.2	-10.6	9.7	-9.7
295.0	0.004975	15.2	-20.6	5.4	-10.8	9.9	-9.9
300.0	0.004719	15.6	-20.9	5.6	-10.9	10.0	-10.0

-- ChiaraMariotti and ReiTanaka - 24-Dec-2010

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