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SM Higgs production cross sections at $\sqrt{s} = 7$ TeV (2012 update, used until summer 2013)

- All ggF and VBF numbers are based upon complex-pole-scheme (CPS), while WH/ZH and ttH numbers are with zero-width-approximation (ZWA).
- SM Higgs cross sections and BRs in Spread sheet is available in xlsx 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).
- Check here for numbers used for ICHEP 2012 (ggF in CPS, VBF in ZWA).

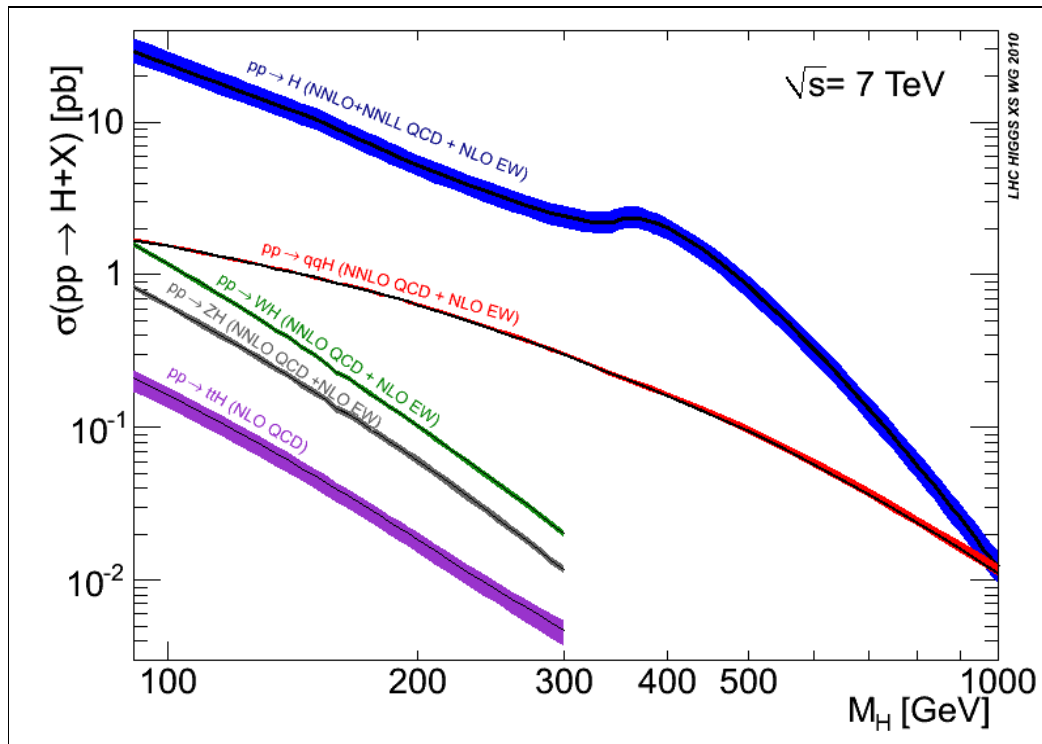


Figure 1: Standard Model Higgs boson production cross sections.

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).

- 207 points in total for ggF and VBF ($M_H=[90,1000]$ GeV), 156 points for WH/ZH and ttH processes ($M_H=[90,300]$ GeV).

gluon-gluon Fusion Process

- All cross sections are in complex-pole-scheme from the dFG program. They are computed at NNLL QCD and NLO EW.
- The total uncertainty (+-Total [%]) is the linear combination of the QCD scale (+-Scale [%]) and the PDF+_s [%] uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ _s) %	-(PDF+ _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
165.0	8.378	+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

175.0	7.299	+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
185.0	6.435	+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
195.0	5.660	+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
450.0	1.381	+15.1	-14.0	+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
550.0	0.5443	+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
650.0	0.2223	+16.6	-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
750.0	0.0992	+17.3	-15.5	+6.4	-5.4	+10.9	-10.1
760.0	0.0919	+17.4	-15.6	+6.4	-5.4	+11.0	-10.2

780.0	0.0793	+17.5	-15.7	+6.5	-5.4	+11.1	-10.3
800.0	0.0685	+17.7	-15.8	+6.5	-5.4	+11.2	-10.4
820.0	0.0595	+17.9	-16.0	+6.5	-5.4	+11.4	-10.6
840.0	0.0518	+18.2	-16.3	+6.5	-5.5	+11.7	-10.9
850.0	0.0484	+18.3	-16.5	+6.5	-5.5	+11.8	-11.0
860.0	0.0452	+18.5	-16.7	+6.5	-5.5	+11.9	-11.1
880.0	0.0397	+18.8	-17.0	+6.6	-5.6	+12.3	-11.5
900.0	0.0348	+19.3	-17.4	+6.7	-5.6	+12.6	-11.8
920.0	0.0307	+19.7	-17.8	+6.8	-5.6	+13.0	-12.2
940.0	0.0271	+20.1	-18.2	+6.8	-5.7	+13.3	-12.5
950.0	0.0256	+20.3	-18.4	+6.8	-5.7	+13.5	-12.7
960.0	0.0241	+20.5	-18.6	+6.8	-5.7	+13.7	-12.9
980.0	0.0214	+20.9	-18.9	+6.9	-5.7	+14.0	-13.2
1000.0	0.0190	+21.2	-19.2	+7.0	-5.7	+14.2	-13.5

VBF Process

- At NNLO QCD and NLO EW. All cross sections are in complex-pole-scheme.
- The total uncertainty (+-Total [%]) is the linear combination of the QCD scale (+-Scale [%]) and the PDF+ α_s [%] uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ α_s) %	-(PDF+ α_s) %
90.0	1.723	+2.7	-2.3	+0.6	-0.2	+2.1	-2.1
95.0	1.639	+2.5	-2.5	+0.4	-0.4	+2.1	-2.1
100.0	1.557	+2.6	-2.4	+0.4	-0.3	+2.2	-2.1
105.0	1.478	+2.5	-2.4	+0.3	-0.3	+2.2	-2.1
110.0	1.410	+2.8	-2.3	+0.5	-0.2	+2.3	-2.1
110.5	1.404	+2.8	-2.3	+0.5	-0.2	+2.3	-2.1
111.0	1.396	+2.7	-2.3	+0.4	-0.2	+2.3	-2.1
111.5	1.391	+2.7	-2.3	+0.4	-0.2	+2.3	-2.1
112.0	1.382	+2.7	-2.3	+0.4	-0.2	+2.3	-2.1
112.5	1.375	+2.6	-2.3	+0.3	-0.2	+2.3	-2.1
113.0	1.369	+2.6	-2.3	+0.3	-0.2	+2.3	-2.1
113.5	1.363	+2.6	-2.3	+0.3	-0.2	+2.3	-2.1
114.0	1.356	+2.6	-2.3	+0.3	-0.2	+2.3	-2.1
114.5	1.349	+2.5	-2.3	+0.2	-0.2	+2.3	-2.1
115.0	1.344	+2.5	-2.3	+0.2	-0.2	+2.3	-2.1
115.5	1.335	+2.5	-2.3	+0.2	-0.2	+2.3	-2.1
116.0	1.330	+2.5	-2.3	+0.2	-0.2	+2.3	-2.1
116.5	1.324	+2.5	-2.4	+0.2	-0.3	+2.3	-2.1
117.0	1.317	+2.5	-2.4	+0.2	-0.3	+2.3	-2.1
117.5	1.310	+2.5	-2.4	+0.2	-0.3	+2.3	-2.1
118.0	1.304	+2.7	-2.4	+0.3	-0.3	+2.4	-2.1
118.5	1.297	+2.7	-2.4	+0.3	-0.3	+2.4	-2.1
119.0	1.292	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
119.5	1.286	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
120.0	1.279	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
120.5	1.275	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
121.0	1.269	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
121.5	1.263	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1
122.0	1.257	+2.7	-2.5	+0.3	-0.4	+2.4	-2.1

122.5	1.251	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
123.0	1.246	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
123.5	1.241	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
124.0	1.234	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
124.5	1.227	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
125.0	1.222	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
125.5	1.219	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
126.0	1.211	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
126.5	1.206	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
127.0	1.199	+2.8	-2.4	+0.3	-0.3	+2.5	-2.1
127.5	1.194	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
128.0	1.187	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
128.5	1.184	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
129.0	1.178	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
129.5	1.173	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
130.0	1.168	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
130.5	1.161	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
131.0	1.157	+2.8	-2.3	+0.3	-0.2	+2.5	-2.1
131.5	1.152	+2.9	-2.3	+0.4	-0.2	+2.5	-2.1
132.0	1.147	+2.9	-2.3	+0.4	-0.2	+2.5	-2.1
132.5	1.142	+2.9	-2.3	+0.4	-0.2	+2.5	-2.1
133.0	1.136	+3.0	-2.2	+0.4	-0.1	+2.6	-2.1
133.5	1.133	+3.0	-2.2	+0.4	-0.1	+2.6	-2.1
134.0	1.127	+3.1	-2.2	+0.5	-0.1	+2.6	-2.1
134.5	1.121	+3.1	-2.2	+0.5	-0.1	+2.6	-2.1
135.0	1.117	+3.1	-2.2	+0.5	-0.1	+2.6	-2.1
135.5	1.112	+3.1	-2.2	+0.5	-0.1	+2.6	-2.1
136.0	1.107	+3.0	-2.2	+0.4	-0.1	+2.6	-2.1
136.5	1.103	+3.0	-2.2	+0.4	-0.1	+2.6	-2.1
137.0	1.097	+3.0	-2.2	+0.4	-0.1	+2.6	-2.1
137.5	1.092	+2.9	-2.2	+0.3	-0.1	+2.6	-2.1
138.0	1.087	+2.9	-2.3	+0.3	-0.2	+2.6	-2.1
138.5	1.082	+2.9	-2.3	+0.3	-0.2	+2.6	-2.1
139.0	1.078	+2.9	-2.3	+0.3	-0.2	+2.6	-2.1
139.5	1.074	+2.8	-2.3	+0.2	-0.2	+2.6	-2.1
140.0	1.069	+2.8	-2.3	+0.2	-0.2	+2.6	-2.1
141.0	1.059	+2.8	-2.3	+0.2	-0.2	+2.6	-2.1
142.0	1.050	+2.9	-2.2	+0.3	-0.1	+2.6	-2.1
143.0	1.040	+3.0	-2.2	+0.3	-0.1	+2.7	-2.1
144.0	1.032	+3.1	-2.1	+0.4	0.0	+2.7	-2.1
145.0	1.023	+3.1	-2.1	+0.4	0.0	+2.7	-2.1
146.0	1.015	+3.1	-2.1	+0.4	0.0	+2.7	-2.1
147.0	1.005	+3.0	-2.1	+0.3	0.0	+2.7	-2.1
148.0	0.9980	+3.0	-2.2	+0.3	-0.1	+2.7	-2.1
149.0	0.9880	+2.9	-2.2	+0.2	-0.1	+2.7	-2.1
150.0	0.9800	+2.9	-2.2	+0.2	-0.1	+2.7	-2.1
151.0	0.9720	+2.9	-2.2	+0.2	-0.1	+2.7	-2.1
152.0	0.9640	+2.9	-2.2	+0.2	-0.1	+2.7	-2.1
153.0	0.9561	+3.1	-2.1	+0.3	0.0	+2.8	-2.1
154.0	0.9487	+3.1	-2.1	+0.3	0.0	+2.8	-2.1

155.0	0.9415	+3.1	-2.1	+0.3	0.0	+2.8	-2.1
156.0	0.9339	+3.1	-2.1	+0.3	0.0	+2.8	-2.1
157.0	0.9270	+3.0	-2.2	+0.2	-0.1	+2.8	-2.1
158.0	0.9199	+3.0	-2.2	+0.2	-0.1	+2.8	-2.1
159.0	0.9126	+2.9	-2.3	+0.1	-0.2	+2.8	-2.1
160.0	0.9043	+2.9	-2.3	+0.1	-0.2	+2.8	-2.1
162.0	0.8906	+2.9	-2.3	+0.1	-0.2	+2.8	-2.1
164.0	0.8755	+3.1	-2.2	+0.2	-0.1	+2.9	-2.1
165.0	0.8694	+3.1	-2.2	+0.2	-0.1	+2.9	-2.1
166.0	0.8613	+3.1	-2.2	+0.2	-0.1	+2.9	-2.1
168.0	0.8473	+3.2	-2.3	+0.2	-0.2	+3.0	-2.1
170.0	0.8338	+3.2	-2.3	+0.2	-0.2	+3.0	-2.1
172.0	0.8201	+3.2	-2.3	+0.2	-0.2	+3.0	-2.1
174.0	0.8063	+3.2	-2.2	+0.2	-0.1	+3.0	-2.1
175.0	0.7998	+3.2	-2.2	+0.2	-0.1	+3.0	-2.1
176.0	0.7934	+3.2	-2.2	+0.2	-0.1	+3.0	-2.1
178.0	0.7809	+3.2	-2.3	+0.1	-0.2	+3.1	-2.1
180.0	0.7684	+3.1	-2.4	+0.0	-0.3	+3.1	-2.1
182.0	0.7561	+3.2	-2.3	+0.1	-0.2	+3.1	-2.1
184.0	0.7433	+3.3	-2.1	+0.2	-0.1	+3.1	-2.0
185.0	0.7375	+3.4	-2.1	+0.3	-0.1	+3.1	-2.0
186.0	0.7314	+3.4	-2.1	+0.3	-0.1	+3.1	-2.0
188.0	0.7195	+3.4	-2.2	+0.2	-0.2	+3.2	-2.0
190.0	0.7080	+3.3	-2.2	+0.1	-0.2	+3.2	-2.0
192.0	0.6960	+3.3	-2.3	+0.1	-0.3	+3.2	-2.0
194.0	0.6845	+3.4	-2.4	+0.2	-0.4	+3.2	-2.0
195.0	0.6790	+3.4	-2.4	+0.2	-0.4	+3.2	-2.0
196.0	0.6735	+3.4	-2.4	+0.2	-0.4	+3.2	-2.0
198.0	0.6629	+3.4	-2.3	+0.1	-0.3	+3.3	-2.0
200.0	0.6524	+3.4	-2.2	+0.1	-0.2	+3.3	-2.0
202.0	0.6429	+3.4	-2.2	+0.1	-0.2	+3.3	-2.0
204.0	0.6343	+3.4	-2.2	+0.1	-0.2	+3.3	-2.0
206.0	0.6262	+3.5	-2.3	+0.1	-0.3	+3.4	-2.0
208.0	0.6184	+3.5	-2.3	+0.1	-0.3	+3.4	-2.0
210.0	0.6108	+3.5	-2.3	+0.1	-0.3	+3.4	-2.0
212.0	0.6033	+3.5	-2.3	+0.1	-0.3	+3.4	-2.0
214.0	0.5955	+3.5	-2.3	+0.1	-0.3	+3.4	-2.0
216.0	0.5879	+3.5	-2.4	+0.0	-0.4	+3.5	-2.0
218.0	0.5802	+3.5	-2.4	+0.0	-0.4	+3.5	-2.0
220.0	0.5724	+3.5	-2.4	+0.0	-0.4	+3.5	-2.0
222.0	0.5646	+3.5	-2.4	+0.0	-0.4	+3.5	-2.0
224.0	0.5570	+3.5	-2.4	+0.0	-0.4	+3.5	-2.0
226.0	0.5493	+3.7	-2.4	+0.1	-0.4	+3.6	-2.0
228.0	0.5416	+3.7	-2.4	+0.1	-0.4	+3.6	-2.0
230.0	0.5341	+3.7	-2.4	+0.1	-0.4	+3.6	-2.0
232.0	0.5266	+3.7	-2.4	+0.1	-0.4	+3.6	-2.0
234.0	0.5190	+3.7	-2.4	+0.1	-0.4	+3.6	-2.0
236.0	0.5114	+3.8	-2.5	+0.1	-0.5	+3.7	-2.0
238.0	0.5038	+3.8	-2.5	+0.1	-0.5	+3.7	-2.0
240.0	0.4959	+3.8	-2.5	+0.1	-0.5	+3.7	-2.0

242.0	0.4882	+3.8	-2.5	+0.1	-0.5	+3.7	-2.0
244.0	0.4807	+3.8	-2.5	+0.1	-0.5	+3.7	-2.0
246.0	0.4733	+3.9	-2.6	+0.1	-0.6	+3.8	-2.0
248.0	0.4661	+3.9	-2.6	+0.1	-0.6	+3.8	-2.0
250.0	0.4588	+3.9	-2.6	+0.1	-0.6	+3.8	-2.0
252.0	0.4519	+3.9	-2.6	+0.1	-0.6	+3.8	-2.0
254.0	0.4452	+4.0	-2.5	+0.2	-0.5	+3.8	-2.0
256.0	0.4385	+4.1	-2.5	+0.2	-0.5	+3.9	-2.0
258.0	0.4320	+4.2	-2.4	+0.3	-0.4	+3.9	-2.0
260.0	0.4256	+4.2	-2.4	+0.3	-0.4	+3.9	-2.0
262.0	0.4193	+4.2	-2.4	+0.3	-0.4	+3.9	-2.0
264.0	0.4131	+4.1	-2.5	+0.2	-0.5	+3.9	-2.0
266.0	0.4069	+4.2	-2.5	+0.2	-0.5	+4.0	-2.0
268.0	0.4010	+4.1	-2.6	+0.1	-0.6	+4.0	-2.0
270.0	0.3951	+4.1	-2.6	+0.1	-0.6	+4.0	-2.0
272.0	0.3894	+4.1	-2.6	+0.1	-0.6	+4.0	-2.0
274.0	0.3837	+4.2	-2.6	+0.1	-0.6	+4.1	-2.0
276.0	0.3783	+4.3	-2.7	+0.2	-0.7	+4.1	-2.0
278.0	0.3729	+4.4	-2.7	+0.2	-0.7	+4.2	-2.0
280.0	0.3676	+4.4	-2.7	+0.2	-0.7	+4.2	-2.0
282.0	0.3623	+4.4	-2.7	+0.2	-0.7	+4.2	-2.0
284.0	0.3572	+4.4	-2.7	+0.2	-0.7	+4.2	-2.0
286.0	0.3521	+4.5	-2.7	+0.2	-0.7	+4.3	-2.0
288.0	0.3471	+4.5	-2.7	+0.2	-0.7	+4.3	-2.0
290.0	0.3422	+4.5	-2.7	+0.2	-0.7	+4.3	-2.0
295.0	0.3387	+4.5	-2.8	+0.2	-0.8	+4.3	-2.0
300.0	0.3350	+4.6	-2.8	+0.2	-0.8	+4.4	-2.0
305.0	0.3237	+4.7	-2.8	+0.2	-0.8	+4.5	-2.0
310.0	0.3130	+4.7	-2.7	+0.2	-0.8	+4.5	-1.9
315.0	0.3028	+4.8	-2.6	+0.3	-0.7	+4.5	-1.9
320.0	0.2929	+4.9	-2.6	+0.3	-0.7	+4.6	-1.9
325.0	0.2834	+4.9	-2.7	+0.3	-0.8	+4.6	-1.9
330.0	0.2745	+5.0	-2.7	+0.3	-0.8	+4.7	-1.9
335.0	0.2661	+5.1	-2.8	+0.3	-0.9	+4.8	-1.9
340.0	0.2585	+5.1	-2.8	+0.3	-0.9	+4.8	-1.9
345.0	0.2519	+5.1	-2.9	+0.3	-1.0	+4.8	-1.9
350.0	0.2380	+5.2	-2.9	+0.3	-1.0	+4.9	-1.9
360.0	0.2142	+5.3	-3.0	+0.3	-1.1	+5.0	-1.9
370.0	0.2039	+5.5	-3.0	+0.4	-1.1	+5.1	-1.9
380.0	0.1949	+5.6	-3.0	+0.4	-1.1	+5.2	-1.9
390.0	0.1859	+5.7	-3.0	+0.4	-1.1	+5.3	-1.9
400.0	0.1772	+5.9	-3.1	+0.4	-1.2	+5.5	-1.9
420.0	0.1601	+6.2	-3.1	+0.5	-1.2	+5.7	-1.9
440.0	0.1442	+6.5	-3.1	+0.6	-1.3	+5.9	-1.8
450.0	0.1368	+6.6	-3.1	+0.6	-1.3	+6.0	-1.8
460.0	0.1296	+6.7	-3.2	+0.6	-1.4	+6.1	-1.8
480.0	0.1164	+7.1	-3.3	+0.7	-1.5	+6.4	-1.8
500.0	0.1046	+7.3	-3.4	+0.7	-1.6	+6.6	-1.8
520.0	0.0940	+7.5	-3.4	+0.7	-1.6	+6.8	-1.8
540.0	0.0846	+7.8	-3.5	+0.8	-1.7	+7.0	-1.8

550.0	0.0803	+7.9	-3.5	+0.8	-1.7	+7.1	-1.8
560.0	0.0763	+8.0	-3.6	+0.8	-1.8	+7.2	-1.8
580.0	0.0689	+8.3	-3.6	+0.9	-1.9	+7.4	-1.7
600.0	0.0624	+8.6	-3.7	+1.0	-2.0	+7.6	-1.7
620.0	0.0567	+8.8	-3.8	+1.0	-2.1	+7.8	-1.7
640.0	0.0515	+9.2	-3.9	+1.1	-2.2	+8.1	-1.7
650.0	0.0492	+9.3	-3.9	+1.1	-2.2	+8.2	-1.7
660.0	0.0469	+9.4	-3.9	+1.1	-2.2	+8.3	-1.7
680.0	0.0429	+9.7	-3.9	+1.2	-2.3	+8.5	-1.6
700.0	0.0392	+9.9	-4.0	+1.2	-2.4	+8.7	-1.6
720.0	0.0360	+10.2	-4.1	+1.3	-2.5	+8.9	-1.6
740.0	0.0330	+10.6	-4.2	+1.4	-2.6	+9.2	-1.6
750.0	0.0317	+10.7	-4.2	+1.4	-2.6	+9.3	-1.6
760.0	0.0304	+10.8	-4.2	+1.4	-2.6	+9.4	-1.6
780.0	0.0281	+11.1	-4.3	+1.5	-2.7	+9.6	-1.6
800.0	0.0260	+11.3	-4.4	+1.5	-2.8	+9.8	-1.6
820.0	0.0241	+11.5	-4.5	+1.5	-2.9	+10.0	-1.6
840.0	0.0224	+11.9	-4.5	+1.6	-3.0	+10.3	-1.5
850.0	0.0216	+12.0	-4.5	+1.6	-3.0	+10.4	-1.5
860.0	0.0208	+12.1	-4.5	+1.6	-3.0	+10.5	-1.5
880.0	0.0194	+12.4	-4.6	+1.7	-3.1	+10.7	-1.5
900.0	0.0181	+12.6	-4.7	+1.7	-3.2	+10.9	-1.5
920.0	0.0170	+12.9	-4.7	+1.8	-3.2	+11.1	-1.5
940.0	0.0159	+13.3	-4.7	+1.9	-3.3	+11.4	-1.4
950.0	0.0154	+13.5	-4.7	+2.0	-3.3	+11.5	-1.4
960.0	0.0149	+13.6	-4.7	+2.0	-3.3	+11.6	-1.4
980.0	0.0140	+13.9	-4.8	+2.1	-3.4	+11.8	-1.4
1000.0	0.0132	+14.2	-4.9	+2.2	-3.5	+12.0	-1.4

WH Production

- The cross section are calculated at NNLO QCD and NLO EW.
- The total uncertainty (+-Total [%]) is the linear combination of the QCD scale (+-Scale [%]) and the PDF+_s [%] uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ _s) %	-(PDF+ _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
165.0	0.2107	+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
175.0	0.1689	+4.1	-4.9	+0.3	-1.1	+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
185.0	0.1387	+3.9	-4.4	+0.4	-0.9	+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
195.0	0.1138	+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	0.0993	+4.2	-4.7	+0.4	-0.9	+3.8	-3.8
204.0	0.0956	+4.2	-4.6	+0.4	-0.9	+3.8	-3.8
206.0	0.0921	+4.2	-4.6	+0.5	-0.8	+3.7	-3.7
208.0	0.0888	+4.2	-4.5	+0.5	-0.8	+3.7	-3.7
210.0	0.0856	+4.2	-4.4	+0.5	-0.7	+3.7	-3.7
212.0	0.0825	+4.2	-4.4	+0.5	-0.7	+3.7	-3.7

214.0	0.0795	+4.1	-4.5	+0.4	-0.8	+3.7	-3.7
216.0	0.0767	+4.1	-4.5	+0.4	-0.8	+3.7	-3.7
218.0	0.0740	+4.0	-4.6	+0.3	-0.9	+3.7	-3.7
220.0	0.0714	+4.0	-4.6	+0.3	-0.9	+3.7	-3.7
222.0	0.0690	+4.2	-4.7	+0.4	-0.9	+3.9	-3.9
224.0	0.0666	+4.5	-4.8	+0.5	-0.8	+4.0	-4.0
226.0	0.0643	+4.7	-5.0	+0.5	-0.8	+4.2	-4.2
228.0	0.0621	+5.0	-5.1	+0.6	-0.7	+4.3	-4.3
230.0	0.0601	+5.2	-5.2	+0.7	-0.7	+4.5	-4.5
232.0	0.0581	+5.1	-5.1	+0.7	-0.7	+4.4	-4.4
234.0	0.0561	+4.9	-5.0	+0.6	-0.7	+4.3	-4.3
236.0	0.0543	+4.8	-4.9	+0.6	-0.7	+4.2	-4.2
238.0	0.0525	+4.6	-4.8	+0.5	-0.7	+4.1	-4.1
240.0	0.0508	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
242.0	0.0491	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
244.0	0.0475	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
246.0	0.0460	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
248.0	0.0445	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
250.0	0.0431	+4.5	-4.7	+0.5	-0.7	+4.0	-4.0
252.0	0.0417	+4.6	-4.7	+0.6	-0.7	+4.0	-4.0
254.0	0.0404	+4.6	-4.7	+0.6	-0.7	+4.0	-4.0
256.0	0.0391	+4.7	-4.7	+0.7	-0.7	+4.0	-4.0
258.0	0.0379	+4.7	-4.7	+0.7	-0.7	+4.0	-4.0
260.0	0.0367	+4.8	-4.7	+0.8	-0.7	+4.0	-4.0
262.0	0.0356	+4.7	-4.7	+0.8	-0.7	+4.0	-4.0
264.0	0.0345	+4.6	-4.7	+0.7	-0.8	+3.9	-3.9
266.0	0.0335	+4.6	-4.7	+0.7	-0.8	+3.9	-3.9
268.0	0.0324	+4.5	-4.7	+0.6	-0.9	+3.8	-3.8
270.0	0.0315	+4.4	-4.7	+0.6	-0.9	+3.8	-3.8
272.0	0.0305	+4.5	-4.8	+0.6	-0.9	+3.9	-3.9
274.0	0.0296	+4.6	-5.0	+0.5	-0.9	+4.0	-4.0
276.0	0.0287	+4.6	-5.1	+0.5	-1.0	+4.2	-4.2
278.0	0.0278	+4.7	-5.3	+0.4	-1.0	+4.3	-4.3
280.0	0.0270	+4.8	-5.4	+0.4	-1.0	+4.4	-4.4
282.0	0.0262	+4.8	-5.3	+0.5	-1.0	+4.4	-4.4
284.0	0.0255	+4.8	-5.2	+0.5	-0.9	+4.3	-4.3
286.0	0.0247	+4.9	-5.2	+0.6	-0.9	+4.3	-4.3
288.0	0.0240	+4.9	-5.1	+0.6	-0.8	+4.2	-4.2
290.0	0.0233	+4.9	-5.0	+0.7	-0.8	+4.2	-4.2
295.0	0.0217	+5.0	-5.2	+0.6	-0.9	+4.3	-4.3
300.0	0.0202	+5.1	-5.4	+0.6	-0.9	+4.5	-4.5

ZH Production

- The cross section are calculated at NNLO QCD and NLO EW.
- The total uncertainty (+-Total [%]) is the linear combination of the QCD scale (+-Scale [%]) and the PDF+_s [%] uncertainties.

m_H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ _s) %	-(PDF+ _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
165.0	0.1233	+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
175.0	0.0995	+6.2	-6.0	+2.1	-1.9	+4.1	-4.1
176.0	0.0973	+6.2	-5.9	+2.1	-1.9	+4.0	-4.0
178.0	0.0931	+6.1	-5.8	+2.2	-1.9	+3.9	-3.9
180.0	0.0892	+6.0	-5.7	+2.2	-1.9	+3.8	-3.8
182.0	0.0859	+6.0	-5.7	+2.2	-1.9	+3.8	-3.8
184.0	0.0829	+6.1	-5.8	+2.3	-2.0	+3.8	-3.8
185.0	0.0814	+6.1	-5.8	+2.3	-2.0	+3.8	-3.8
186.0	0.0798	+6.1	-5.8	+2.3	-2.0	+3.8	-3.8
188.0	0.0767	+6.1	-5.9	+2.2	-2.1	+3.9	-3.9

190.0	0.0737	+6.1	-6.0	+2.2	-2.1	+3.9	-3.9
192.0	0.0709	+6.2	-6.0	+2.2	-2.0	+3.9	-3.9
194.0	0.0683	+6.3	-5.9	+2.3	-1.9	+4.0	-4.0
195.0	0.0670	+6.3	-5.9	+2.3	-1.9	+4.0	-4.0
196.0	0.0657	+6.3	-5.9	+2.3	-1.9	+4.0	-4.0
198.0	0.0633	+6.4	-6.0	+2.3	-1.9	+4.1	-4.1
200.0	0.0610	+6.4	-6.0	+2.3	-1.9	+4.1	-4.1
202.0	0.0587	+6.4	-6.0	+2.3	-1.9	+4.1	-4.1
204.0	0.0566	+6.4	-6.1	+2.2	-1.9	+4.1	-4.1
206.0	0.0545	+6.3	-6.1	+2.2	-2.0	+4.2	-4.2
208.0	0.0526	+6.3	-6.2	+2.1	-2.0	+4.2	-4.2
210.0	0.0507	+6.3	-6.2	+2.1	-2.0	+4.2	-4.2
212.0	0.0489	+6.3	-6.2	+2.1	-2.0	+4.2	-4.2
214.0	0.0471	+6.3	-6.2	+2.1	-2.0	+4.2	-4.2
216.0	0.0455	+6.4	-6.1	+2.2	-1.9	+4.2	-4.2
218.0	0.0439	+6.4	-6.1	+2.2	-1.9	+4.2	-4.2
220.0	0.0424	+6.4	-6.1	+2.2	-1.9	+4.2	-4.2
222.0	0.0409	+6.5	-6.2	+2.2	-1.9	+4.3	-4.3
224.0	0.0395	+6.6	-6.3	+2.2	-1.9	+4.4	-4.4
226.0	0.0381	+6.7	-6.5	+2.1	-1.9	+4.6	-4.6
228.0	0.0368	+6.8	-6.6	+2.1	-1.9	+4.7	-4.7
230.0	0.0356	+6.9	-6.7	+2.1	-1.9	+4.8	-4.8
232.0	0.0344	+6.8	-6.6	+2.1	-1.9	+4.7	-4.7
234.0	0.0332	+6.7	-6.5	+2.0	-1.9	+4.6	-4.6
236.0	0.0321	+6.5	-6.4	+2.0	-1.8	+4.6	-4.6
238.0	0.0310	+6.4	-6.3	+1.9	-1.8	+4.5	-4.5
240.0	0.0300	+6.3	-6.2	+1.9	-1.8	+4.4	-4.4
242.0	0.0290	+6.3	-6.1	+1.9	-1.8	+4.4	-4.4
244.0	0.0281	+6.3	-6.0	+1.9	-1.7	+4.3	-4.3
246.0	0.0271	+6.2	-6.0	+2.0	-1.7	+4.3	-4.3
248.0	0.0263	+6.2	-5.9	+2.0	-1.6	+4.2	-4.2
250.0	0.0254	+6.2	-5.8	+2.0	-1.6	+4.2	-4.2
252.0	0.0246	+6.2	-5.9	+2.0	-1.6	+4.3	-4.3
254.0	0.0238	+6.2	-6.0	+1.9	-1.6	+4.3	-4.3
256.0	0.0230	+6.3	-6.0	+1.9	-1.7	+4.4	-4.4
258.0	0.0223	+6.3	-6.1	+1.8	-1.7	+4.4	-4.4
260.0	0.0216	+6.3	-6.2	+1.8	-1.7	+4.5	-4.5
262.0	0.0209	+6.2	-6.2	+1.8	-1.7	+4.5	-4.5
264.0	0.0202	+6.2	-6.1	+1.8	-1.7	+4.4	-4.4
266.0	0.0196	+6.1	-6.1	+1.7	-1.7	+4.4	-4.4
268.0	0.0190	+6.1	-6.0	+1.7	-1.7	+4.3	-4.3
270.0	0.0184	+6.0	-6.0	+1.7	-1.7	+4.3	-4.3
272.0	0.0178	+6.1	-6.0	+1.7	-1.6	+4.4	-4.4
274.0	0.0173	+6.2	-6.1	+1.7	-1.5	+4.5	-4.5
276.0	0.0168	+6.3	-6.1	+1.6	-1.5	+4.7	-4.7
278.0	0.0162	+6.4	-6.2	+1.6	-1.4	+4.8	-4.8
280.0	0.0158	+6.5	-6.2	+1.6	-1.3	+4.9	-4.9
282.0	0.0153	+6.4	-6.1	+1.6	-1.3	+4.8	-4.8
284.0	0.0148	+6.3	-6.0	+1.6	-1.3	+4.7	-4.7
286.0	0.0144	+6.2	-6.0	+1.5	-1.3	+4.7	-4.7

288.0	0.0140	+6.1	-5.9	+1.5	-1.3	+4.6	-4.6
290.0	0.0136	+6.0	-5.8	+1.5	-1.3	+4.5	-4.5
295.0	0.0126	+6.2	-6.0	+1.5	-1.2	+4.8	-4.8
300.0	0.0117	+6.4	-6.2	+1.4	-1.2	+5.0	-5.0

ttH associate production

- The cross section are calculated at NLO QCD.
- The total uncertainty (+-Total [%]) is the linear combination of the QCD scale (+-Scale [%]) and the PDF+_s [%] uncertainties.

m _H (GeV)	Cross Section (pb)	+error %	-error %	+scale %	-scale %	+(PDF+ _s) %	-(PDF+ _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	0.0988	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
120.0	0.0976	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
120.5	0.0964	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
121.0	0.0952	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
121.5	0.0940	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
122.0	0.0929	+11.8	-17.8	+3.4	-9.4	+8.4	-8.4
122.5	0.0917	+11.8	-17.8	+3.3	-9.4	+8.4	-8.4
123.0	0.0906	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
123.5	0.0895	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
124.0	0.0885	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
124.5	0.0874	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
125.0	0.0863	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
125.5	0.0853	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
126.0	0.0843	+11.8	-17.8	+3.3	-9.3	+8.5	-8.5
126.5	0.0833	+11.7	-17.8	+3.3	-9.3	+8.5	-8.5
127.0	0.0823	+11.7	-17.8	+3.3	-9.3	+8.5	-8.5

127.5	0.0813	+11.7	-17.8	+3.2	-9.3	+8.4	-8.4
128.0	0.0803	+11.7	-17.7	+3.2	-9.3	+8.4	-8.4
128.5	0.0794	+11.7	-17.7	+3.2	-9.3	+8.4	-8.4
129.0	0.0784	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
129.5	0.0775	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
130.0	0.0766	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
130.5	0.0757	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
131.0	0.0748	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
131.5	0.0739	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
132.0	0.0730	+11.6	-17.7	+3.2	-9.3	+8.4	-8.4
132.5	0.0722	+11.5	-17.6	+3.2	-9.2	+8.4	-8.4
133.0	0.0714	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
133.5	0.0705	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
134.0	0.0697	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
134.5	0.0689	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
135.0	0.0681	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
135.5	0.0673	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
136.0	0.0665	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
136.5	0.0658	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
137.0	0.0650	+11.5	-17.6	+3.1	-9.2	+8.4	-8.4
137.5	0.0643	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
138.0	0.0636	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
138.5	0.0628	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
139.0	0.0621	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
139.5	0.0614	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
140.0	0.0607	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
141.0	0.0594	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
142.0	0.0581	+11.4	-17.6	+3.0	-9.2	+8.4	-8.4
143.0	0.0568	+11.4	-17.6	+2.9	-9.1	+8.5	-8.5
144.0	0.0556	+11.4	-17.6	+2.9	-9.1	+8.5	-8.5
145.0	0.0544	+11.4	-17.6	+2.9	-9.1	+8.5	-8.5
146.0	0.0532	+11.4	-17.6	+2.9	-9.1	+8.5	-8.5
147.0	0.0520	+11.4	-17.6	+2.9	-9.1	+8.5	-8.5
148.0	0.0509	+11.3	-17.5	+2.9	-9.1	+8.4	-8.4
149.0	0.0498	+11.3	-17.5	+2.9	-9.1	+8.4	-8.4
150.0	0.0487	+11.3	-17.5	+2.9	-9.1	+8.4	-8.4
151.0	0.0477	+11.3	-17.5	+2.9	-9.1	+8.4	-8.4
152.0	0.0466	+11.3	-17.6	+2.9	-9.1	+8.5	-8.5
153.0	0.0456	+11.4	-17.6	+2.8	-9.1	+8.5	-8.5
154.0	0.0447	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
155.0	0.0437	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
156.0	0.0428	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
157.0	0.0419	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
158.0	0.0411	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
159.0	0.0402	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
160.0	0.0394	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
162.0	0.0378	+11.4	-17.7	+2.8	-9.1	+8.6	-8.6
164.0	0.0363	+11.3	-17.7	+2.7	-9.1	+8.6	-8.6
165.0	0.0356	+11.3	-17.7	+2.7	-9.1	+8.6	-8.6
166.0	0.0349	+11.3	-17.7	+2.7	-9.1	+8.6	-8.6

168.0	0.0335	+11.3	-17.6	+2.7	-9.0	+8.6	-8.6
170.0	0.0322	+11.3	-17.6	+2.7	-9.0	+8.6	-8.6
172.0	0.0309	+11.3	-17.6	+2.7	-9.0	+8.6	-8.6
174.0	0.0298	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
175.0	0.0292	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
176.0	0.0286	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
178.0	0.0276	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
180.0	0.0265	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
182.0	0.0255	+11.2	-17.6	+2.6	-9.0	+8.6	-8.6
184.0	0.0246	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
185.0	0.0241	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
186.0	0.0237	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
188.0	0.0229	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
190.0	0.0221	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
192.0	0.0213	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
194.0	0.0205	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
195.0	0.0202	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
196.0	0.0198	+11.3	-17.7	+2.6	-9.0	+8.7	-8.7
198.0	0.0191	+11.3	-17.8	+2.6	-9.1	+8.7	-8.7
200.0	0.0185	+11.3	-17.8	+2.6	-9.1	+8.7	-8.7
202.0	0.0179	+11.4	-17.9	+2.6	-9.1	+8.7	-8.7
204.0	0.0173	+11.5	-17.9	+2.7	-9.1	+8.8	-8.8
206.0	0.0167	+11.5	-18.0	+2.7	-9.2	+8.8	-8.8
208.0	0.0162	+11.6	-18.0	+2.8	-9.2	+8.9	-8.9
210.0	0.0156	+11.7	-18.1	+2.8	-9.2	+8.9	-8.9
212.0	0.0151	+11.7	-18.1	+2.8	-9.2	+8.9	-8.9
214.0	0.0146	+11.7	-18.1	+2.8	-9.2	+8.9	-8.9
216.0	0.0142	+11.8	-18.2	+2.9	-9.3	+8.9	-8.9
218.0	0.0137	+11.8	-18.2	+2.9	-9.3	+8.9	-8.9
220.0	0.0133	+11.8	-18.2	+2.9	-9.3	+8.9	-8.9
222.0	0.0129	+11.9	-18.2	+3.0	-9.3	+8.9	-8.9
224.0	0.0125	+12.0	-18.3	+3.0	-9.3	+8.9	-8.9
226.0	0.0121	+12.0	-18.3	+3.1	-9.4	+9.0	-9.0
228.0	0.0118	+12.1	-18.4	+3.1	-9.4	+9.0	-9.0
230.0	0.0114	+12.2	-18.4	+3.2	-9.4	+9.0	-9.0
232.0	0.0111	+12.2	-18.4	+3.2	-9.4	+9.0	-9.0
234.0	0.0108	+12.2	-18.5	+3.2	-9.4	+9.0	-9.0
236.0	0.0105	+12.3	-18.5	+3.2	-9.5	+9.1	-9.1
238.0	0.0102	+12.3	-18.6	+3.2	-9.5	+9.1	-9.1
240.0	0.0099	+12.3	-18.6	+3.2	-9.5	+9.1	-9.1
242.0	0.0096	+12.4	-18.6	+3.3	-9.5	+9.1	-9.1
244.0	0.0093	+12.4	-18.7	+3.3	-9.6	+9.1	-9.1
246.0	0.0091	+12.5	-18.7	+3.4	-9.6	+9.1	-9.1
248.0	0.0088	+12.5	-18.8	+3.4	-9.7	+9.1	-9.1
250.0	0.0086	+12.6	-18.8	+3.5	-9.7	+9.1	-9.1
252.0	0.0084	+12.7	-18.8	+3.6	-9.7	+9.1	-9.1
254.0	0.0081	+12.7	-18.8	+3.7	-9.8	+9.1	-9.1
256.0	0.0079	+12.8	-18.9	+3.7	-9.8	+9.0	-9.0
258.0	0.0077	+12.8	-18.9	+3.8	-9.9	+9.0	-9.0
260.0	0.0075	+12.9	-18.9	+3.9	-9.9	+9.0	-9.0

262.0	0.0073	+13.0	-19.0	+4.0	-9.9	+9.1	-9.1
264.0	0.0071	+13.2	-19.1	+4.1	-10.0	+9.1	-9.1
266.0	0.0070	+13.3	-19.2	+4.1	-10.0	+9.2	-9.2
268.0	0.0068	+13.5	-19.3	+4.2	-10.1	+9.2	-9.2
270.0	0.0066	+13.6	-19.4	+4.3	-10.1	+9.3	-9.3
272.0	0.0065	+13.7	-19.5	+4.4	-10.2	+9.3	-9.3
274.0	0.0063	+13.8	-19.6	+4.5	-10.2	+9.4	-9.4
276.0	0.0062	+14.0	-19.7	+4.5	-10.3	+9.4	-9.4
278.0	0.0060	+14.1	-19.8	+4.6	-10.3	+9.5	-9.5
280.0	0.0059	+14.2	-19.9	+4.7	-10.4	+9.5	-9.5
282.0	0.0058	+14.3	-20.0	+4.8	-10.4	+9.5	-9.5
284.0	0.0056	+14.5	-20.1	+4.9	-10.5	+9.6	-9.6
286.0	0.0055	+14.6	-20.1	+5.0	-10.5	+9.6	-9.6
288.0	0.0054	+14.8	-20.2	+5.1	-10.6	+9.7	-9.7
290.0	0.0053	+14.9	-20.3	+5.2	-10.6	+9.7	-9.7
295.0	0.0050	+15.2	-20.6	+5.4	-10.8	+9.9	-9.9
300.0	0.0047	+15.6	-20.9	+5.6	-10.9	+10.0	-10.0

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-- ReiTanaka - 20-Oct-2012

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