13 TeV

Sigma_lo	**Sigma_T**	**Hmass**	**K_T**
16.9445	33.9831	150	**2.005553424**
12.7209	24.9429	175	**1.960781077**
9.95455	19.1586	200	**1.92460734**
8.07414	15.2971	225	**1.894579485**
6.76899	12.6531	250	**1.869274441**
5.8652	10.8386	275	**1.847950624**
5.27259	9.65151	300	**1.830506449**
4.98059	9.05669	325	**1.818397017**
5.32898	9.74726	350	**1.829104256**
5.60202	9.98083	375	**1.781648405**
5.13355	8.9419	400	**1.741855052**
3.72447	6.28336	450	**1.68704809**
2.53073	4.17496	500	**1.649705816**

27 TeV

Sigma_lo	**Sigma_T**	**Hmass**	**K_T**
56.624	117.078	150	**2.067639164**
44.3137	89.3293	175	**2.015839345**
36.012	71.0756	200	**1.973664334**
30.2458	58.6249	225	**1.93828234**
26.1956	49.9821	250	**1.908034174**
23.4047	44.0469	275	**1.881968152**
21.6607	40.2855	300	**1.859842941**
21.0368	38.7666	325	**1.842799285**
23.1151	42.6977	350	**1.847177819**
24.9397	44.7485	375	**1.794267774**
23.4174	41.0419	400	**1.752624117**
17.8124	30.1844	450	**1.69457232**
12.6586	20.9487	500	**1.654898646**
8.8564	14.3925	550	**1.625095976**
6.21056	9.94563	600	**1.601406314**
4.39551	6.95332	650	**1.581914272**
3.14794	4.92807	700	**1.565490448**
2.28301	3.54182	750	**1.551381729**
1.67651	2.5803	800	**1.539090134**
1.24599	1.90417	850	**1.528238589**
0.936578	1.42226	900	**1.518570797**
0.71153	1.07434	950	**1.509901199**
0.545953	0.820023	1000	**1.50200292**

100Tev

Sigma_lo	Sigma_T	Hmass	K_T
99.6154	164.219	550	1.648530247
73.1317	118.644	600	1.622333407
54.0679	86.5424	650	1.6006244
40.3732	63.8782	700	1.582193138

13 TeV

Sigma_lo
16.9445
12.7209
9.95455
8.07414
6.76899
5.8652
5.27259
4.98059
5.32898
5.60202
5.13355
3.72447
2.53073
1.69623
1.14136
0.77651
0.534678
0.373346
0.264178
0.189314
0.137291
0.100677
0.0745943

13 TeV

Sigma_lo
0.75258
0.441465
0.26843
0.168321
0.108404
0.714667
0.480981
0.329703
0.229747
0.162479

27TeV

Sigma_lo
0.392939
0.240217
0.152018
0.990999
0.662886
0.453537
0.316561

30.4788	47.7371	750	1.566239484	0.224919
23.2647	36.112	800	1.552222896	0.162374
17.9496	27.6379	850	1.539750189	0.118918
13.9909	21.3857	900	1.528543553	
11.0107	16.7187	950	1.518404824	
8.74382	13.1954	1000	1.509111578	

Sigma_lo	Sigma_T	Hmass	Kb
0.441971	0.441243	550	0.998352833
0.282864	0.281385	600	0.994771339
0.186993	0.185472	650	0.991866006
0.127098	0.125766	700	0.989519898
0.884973	0.874017	750	0.987619961
0.629368	0.620615	800	0.986092397
0.456036	0.44914	850	0.984878387
0.33599	0.330577	900	0.983889401
0.251268	0.247036	950	0.983157426
0.190456	0.187144	1000	0.982610157

Sigma_T	**Hmass**	**K_T**
33.9831	150	**2.005553424**
24.9429	175	**1.960781077**
19.1586	200	**1.92460734**
15.2971	225	**1.894579485**
12.6531	250	**1.869274441**
10.8386	275	**1.847950624**
9.65151	300	**1.830506449**
9.05669	325	**1.818397017**
9.74726	350	**1.829104256**
9.98083	375	**1.781648405**
8.9419	400	**1.741855052**
6.28336	450	**1.68704809**
4.17496	500	**1.649705816**
2.75105	550	1.621861422
1.82607	600	1.599907128
1.22789	650	1.581293222
0.837905	700	1.567120772
0.580361	750	1.554485651
0.407791	800	1.543622103
0.290442	850	1.534181307
0.209494	900	1.525912114
0.15289	950	1.51861895
0.112796	1000	1.512126262

Sigma_T	Hmass	K_b
0.820994	550	1.09090595
0.481443	600	1.090557575
0.29277	650	1.090675409
0.183666	700	1.091165095
0.118373	750	1.091961551
0.781137	800	1.093008352
0.526318	850	1.094259441
0.36125	900	1.095683084
0.252092	950	1.097259159
0.178558	1000	1.098960481

Sigma_T	Hmass	K_b
0.41456	550	1.055023808
0.253011	600	1.053260177
0.159928	650	1.052033312
1.04177	700	1.05123214
0.696548	750	1.050780979
0.476488	800	1.050604471
0.332599	850	1.050663221

0.23637	900	1.050911662
0.170708	950	1.051325951
0.125088	1000	1.051884492

13 Tev				14TeV	
MH	LO	NNLO	Keff	LO	NNLO
150	15.4296	31.7466	2.057512832	17.5546	35.9281
175	11.7781	23.9166	2.030599163	13.4637	27.1975
200	9.33819	18.7675	2.00975778	10.7209	21.4376
225	7.65358	15.2529	1.992910507	8.8222	17.496
250	6.47093	12.8049	1.978834572	7.48714	14.7463
300	5.10645	9.99655	1.957632014	5.94971	11.597
325	4.84942	9.46737	1.952268519	5.66868	11.0207
350	5.21834	10.2768	1.969361904	6.1191	12.0012
400	5.07793	9.57465	1.885541943	5.99017	11.2534
450	3.70208	6.79277	1.834852299	4.39195	8.03472
500	2.52288	4.54125	1.800026161	3.00926	5.40479
550	1.69428	3.00378	1.772894681	2.03149	3.59635
600	1.14163	1.99792	1.750059126	1.37579	2.40597
650	0.777122	1.34438	1.729947164	0.94115	1.62814
700	0.535761	0.917065	1.711705406	0.651987	1.11679
750	0.374327	0.634409	1.694798932	0.4577	0.776774
800	0.264998	0.444908	1.678910784	0.325541	0.547659
850	0.189974	0.316082	1.663817154	0.234459	0.391132
900	0.137812	0.227306	1.649391925	0.170865	0.28274
950	0.101084	0.165328	1.635550631	0.125901	0.206704
1000	0.075	0.121519	1.620253333	9.37E-02	0.152705

13TeV				14 TeV	
MA	LO	NNLO	Keff	LO	NNLO
150				42.1985	86.1823
175	28.7394	58.5274	2.036486496	32.8523	66.5327
200	23.2495	47.0668	2.024422031	26.692	53.7456
225	19.5797	39.4804	2.016394531	22.5693	45.2728
250	17.1778	34.5635	2.01210283	19.8754	39.7922
300	15.4531	31.2366	2.021380823	18.0049	36.2272
325	16.931	34.7846	2.054491761	19.7913	40.4794
350	29.5559	62.2445	2.105992374	34.6576	72.6633
400	15.2973	28.3992	1.856484478	18.0455	33.378
450	8.41953	15.1777	1.802677822	9.98849	17.9541
500	4.87483	8.62261	1.768802194	5.81464	10.2633
550	2.94298	5.12902	1.742798116	3.52871	6.14155
600	1.84009	3.16669	1.720942997	2.21751	3.81388
650	1.18532	2.01697	1.701624878	1.43551	2.44295
700	0.783401	1.31926	1.684016232	0.953349	1.60674
750	0.529462	0.882962	1.667658869	0.647388	1.0812
800	0.364929	0.60295	1.652239203	0.448303	0.742263
850	0.255934	0.419108	1.637562809	0.315865	0.518659
900	0.182294	0.295957	1.623514762	0.226016	0.368157
950	0.131659	0.211973	1.610015267	0.163983	0.265038
1000	9.63E-02	0.153774	1.59701646	0.120474	0.193247

K effective for Heavy Scalar

27 TeV			100 TeV
Keff	**LO**	**NNLO**	**Keff**
2.046648742	51.563	100.31	**1.945387196**
2.02006135	41.0294	78.7445	**1.919221339**
1.999608242	33.7822	64.1771	**1.899731219**
1.983178799	28.6703	54.0325	**1.884615787**
1.969550456	25.0422	46.8901	**1.872443316**
1.949170632	20.9782	38.9107	**1.854815952**
1.944138671	20.4828	37.9025	**1.850455016**
1.961268814	22.6352	42.2247	**1.865444087**
1.878644513	23.1636	41.4679	**1.790218273**
1.829419734	17.7053	30.9991	**1.75083732**
1.79605285	12.6194	21.7947	**1.727078942**
1.770301601	8.84621	15.1326	**1.71063088**
1.748791603	6.21199	10.5486	**1.698103184**
1.729947405	4.40101	7.4285	**1.687908003**
1.712902251	3.15432	5.29681	**1.679224048**
1.697124754	2.289	3.82617	**1.671546527**
1.682304226	1.68171	2.79925	**1.664525988**
1.668231972	1.25033	2.073	**1.657962298**
1.654756679	0.94013	1.55286	**1.65175029**
1.641797921	0.714409	1.17575	**1.645765941**
1.629237399	0.548277	0.899131	**1.639921062**

Keffective for Pseudo Scalar

27TeV			100 TeV
	LO	**NNLO**	**Keff**
2.042307191	123.95	239.775	**1.934449375**
2.025206759	100.115	192.015	**1.917944364**
2.01354713	84.1083	160.421	**1.907314736**
2.00594613	73.3456	139.424	**1.900918392**
2.002082977	66.477	126.191	**1.898265566**
2.012074491	63.4838	121.223	**1.909510773**
2.045312839	71.5125	138.815	**1.941129173**
2.096605074	128.202	254.793	**1.987433893**
1.849657809	69.7807	122.991	**1.762536059**
1.797478898	40.2667	69.3237	**1.721613641**
1.765079179	24.3837	41.4308	**1.699118674**
1.740451893	15.3659	25.8721	**1.683734763**
1.719893033	10.0126	16.7407	**1.671963326**
1.701799361	6.71275	11.1587	**1.662314253**
1.685363912	4.61231	7.62875	**1.653997671**
1.670095831	3.23765	5.33102	**1.646570815**
1.655717227	2.31589	3.79744	**1.639732457**
1.642027448	1.68445	2.75124	**1.633316513**
1.628897954	1.24358	2.02357	**1.627213368**
1.616252904	0.9305	1.50863	**1.621311123**
1.604055647	0.704731	1.13857	**1.61560936**

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LO	NNLO	Keff
336.216	586.746	1.745145978
282.585	484.367	1.714057717
244.37	413.124	1.690567582
216.867	362.604	1.672010956
197.386	327.018	1.656743639
178.099	290.796	1.632777276
179.891	292.176	1.624183533
205.295	334.555	1.629630532
223.081	348.054	1.560213555
180.207	275.593	1.529313512
135.232	204.661	1.51340659
99.5007	149.683	1.504341175
73.1486	109.643	1.498907703
54.1355	80.9658	1.495613784
40.455	60.4271	1.493686813
30.5589	45.6135	1.492642078
23.3369	34.8226	1.492169054
18.0121	26.8755	1.492080324
14.0439	20.9571	1.492256424
11.0552	16.5009	1.492591722
8.78103	13.11	1.492991141

LO	NNLO	Keff
808.212	1393.08	1.723656664
689.528	1173.73	1.70222239
608.414	1026.61	1.687354334
554.797	930.422	1.677049443
523.981	875.295	1.670470876
538.958	900.944	1.671640462
628.061	1063.59	1.693450159
1162.76	2004.06	1.723537101
672.034	1032.38	1.536202037
409.84	617.388	1.506412258
261.301	389.964	1.492393829
172.834	256.57	1.484488006
117.902	174.462	1.479720446
82.5715	121.938	1.476756508
59.1541	87.249	1.474944256
43.2236	63.7067	1.473886951
32.1373	47.3483	1.473312942
24.266	35.7459	1.473085799
18.577	27.3654	1.473079615
14.3992	21.2134	1.473234624
11.2868	16.6311	1.473500018