χ^2 table. Blue color text represents a value that is lower than the SM χ^2 by more than one standard deviation of the χ^2 distribution. Similarly, red color text represents values that are higher than the SM χ^2 by more than one standard deviation. In parenthesis is the total SM χ^2 for the dataset included in the fit.

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
CMS_ttbb_13TeV	1	4.959	1.260	2.047
CMS_ttbb_13TeV_2016	1	1.754	0.001	0.121
ATLAS_ttbb_13TeV_2016	1	0.906	2.524	1.734
CMS_tttt_13TeV	1	0.055	0.001	0.018
CMS_tttt_13TeV_run2	1	0.051	0.687	1.142
ATLAS_tttt_13TeV_run2	1	2.352	1.080	0.710
Total			0.925 (1.679)	0.962 (1.679)

Table 1: χ^2 table for 4H data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_CMS_tt_AC_8TeV	6	0.861	0.800	0.883
ATLAS_tt_AC_13TeV	5	0.275	0.225	0.839
Total		·	$0.539 \ (0.595)$	$0.863 \ (0.595)$

Table 2: χ^2 table for AC data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ggF_ZZ_13TeV	6	0.958	0.845	0.751
CMS_ggF_aa_13TeV	6	1.049	1.039	0.972
ATLAS_H_13TeV_2015_pTH	9	1.11	1.098	1.114
$CMS_H_13TeV_2015_pTH$	9	0.8	0.779	0.769
ATLAS_WH_Hbb_13TeV	2	0.1	0.041	0.042
ATLAS_ZH_Hbb_13TeV	3	0.496	0.429	0.353
Total			$0.845 \ (0.883)$	0.812 (0.883)

Table 3: χ^2 table for Hdiff data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_CMS_SSinc_RunI	22	0.859	0.857	0.922
Total			0.857 (0.859)	$0.922 \ (0.859)$

Table 4: χ^2 table for HrunI data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_SSinc_RunII	16	0.542	0.549	0.521
CMS_SSinc_RunII	24	0.771	0.697	0.756
Total			$0.638 \; (0.679)$	$0.662 \ (0.679)$

Table 5: χ^2 table for HrunII data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
LEP_eeWW_182GeV	10	1.38	1.378	1.363
LEP_eeWW_189GeV	10	0.885	0.884	0.917
LEP_eeWW_198GeV	10	1.609	1.613	1.641
LEP_eeWW_206GeV	10	1.085	1.083	1.054
Total			1.239 (1.240)	1.244 (1.240)

Table 6: χ^2 table for LEP data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_WW_13TeV_2016_memu	13	1.651	1.647	1.538
ATLAS_WZ_13TeV_2016_mTWZ	6	0.861	0.818	1.064
$CMS_WZ_13TeV_2016_pTZ$	11	1.423	1.470	1.067
Total			1.416 (1.410)	1.271 (1.410)

Table 7: χ^2 table for VV data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_WhelF_8TeV	3	1.967	1.278	1.335
CMS_WhelF_8TeV	3	0.296	0.662	0.615
Total			0.970 (1.131)	0.975 (1.131)

Table 8: χ^2 table for WhelF data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
CMS_t_tch_13TeV_inc	2	0.345	0.280	0.387
CMS_t_tch_13TeV_diff_Yt	4	0.476	0.524	0.501
CMS_t_tch_13TeV_2016_diff_Yt	5	0.58	0.594	0.586
ATLAS_t_tch_13TeV	2	0.011	0.050	0.031
Total			0.440 (0.424)	0.444 (0.424)

Table 9: χ^2 table for t13 data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
CMS_t_tch_8TeV_inc	2	0.293	0.084	0.158
CMS_t_tch_8TeV_diff_Yt	6	0.11	0.257	0.193
CMS_t_sch_8TeV	1	1.265	1.499	1.062
ATLAS_t_tch_8TeV	4	0.89	0.546	0.583
ATLAS_t_sch_8TeV	1	0.085	0.023	0.474
Total			0.387 (0.440)	0.382 (0.440)

Table 10: χ^2 table for t8 data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_tW_8TeV_inc	1	0.026	0.020	0.072
ATLAS_tW_slep_8TeV_inc	1	0.134	0.255	0.084
CMS_tW_8TeV_inc	1	0.0	0.030	0.011
ATLAS_tW_13TeV_inc	1	0.549	0.739	0.458
CMS_tW_13TeV_inc	1	3.855	2.306	4.932
Total			$0.670 \ (0.913)$	1.111 (0.913)

Table 11: χ^2 table for tW data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_tZ_13TeV_inc	1	0.0	0.023	0.012
ATLAS_tZ_13TeV_run2_inc	1	0.048	0.020	0.002
CMS_tZ_13TeV_inc	1	0.678	0.443	0.616
$CMS_tZ_13TeV_2016_inc$	1	1.23	0.509	1.026
Total			0.249 (0.489)	0.414 (0.489)

Table 12: χ^2 table for tZ data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
CMS_tt_13TeV_ljets_2015_Mtt	8	0.939	0.666	0.791
CMS_tt_13TeV_dilep_2015_Mtt	6	1.299	1.320	1.321
CMS_tt_13TeV_ljets_2016_Mtt	10	1.992	1.564	1.738
CMS_tt_13TeV_dilep_2016_Mtt	7	2.282	1.817	2.002
ATLAS_tt_13TeV_ljets_2016_Mtt	7	0.986	1.787	1.353
Total			1.424 (1.529)	$1.450 \ (1.529)$

Table 13: χ^2 table for tt13 data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_tt_8TeV_ljets_Mtt	7	2.953	3.009	2.808
ATLAS_tt_8TeV_dilep_Mtt	6	0.086	0.085	0.092
CMS_tt_8TeV_ljets_Ytt	10	0.906	0.987	1.000
CMS_tt2D_8TeV_dilep_MttYtt	16	1.628	1.141	1.258
Total			1.274 (1.443)	1.291 (1.443)

Table 14: χ^2 table for tt8 data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ttW_8TeV	1	1.334	0.582	0.032
ATLAS_ttW_13TeV	1	0.828	0.600	0.331
ATLAS_ttW_13TeV_2016	1	0.225	0.064	0.832
CMS_ttW_8TeV	1	1.781	0.912	0.247
CMS_ttW_13TeV	1	0.028	0.402	0.025
Total			0.512 (0.839)	0.293 (0.839)

Table 15: χ^2 table for ttW data

		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ttZ_8TeV	1	1.314	0.764	1.641
ATLAS_ttZ_13TeV	1	0.007	0.112	0.065
ATLAS_ttZ_13TeV_2016	1	0.001	0.320	0.140
CMS_ttZ_8TeV	1	0.042	0.208	0.006
CMS_ttZ_13TeV	1	1.011	0.216	0.406
CMS_ttZ_13TeV_pTZ	4	0.732	0.641	0.195
Total			$0.465 \ (0.589)$	$0.338 \ (0.589)$

Table 16: χ^2 table for ttZ data

	NS NLO linear		NS LO linear	
Process	$N_{ m data}$	$\chi^2/N_{ m data}$	$N_{ m data}$	$\chi^2/N_{\rm data}$
tt8	39.0	1.274 (1.443)	39.0	1.291 (1.443)
tt13	38.0	1.424 (1.529)	38.0	1.450 (1.529)
WhelF	6.0	0.970(1.131)	6.0	0.975 (1.131)
AC	11.0	$0.539 \ (0.595)$	11.0	$0.863 \ (0.595)$
4H	6.0	0.925 (1.679)	6.0	$0.962\ (1.679)$
ttZ	9.0	$0.465 \ (0.589)$	9.0	$0.338 \ (0.589)$
ttW	5.0	0.512 (0.839)	5.0	0.293 (0.839)
t8	14.0	0.387 (0.440)	14.0	0.382 (0.440)
t13	13.0	$0.440 \ (0.424)$	13.0	$0.444 \ (0.424)$
tW	5.0	$0.670 \ (0.913)$	5.0	1.111 (0.913)
tZ	4.0	0.249 (0.489)	4.0	0.414 (0.489)
HrunI	22.0	0.857 (0.859)	22.0	0.922 (0.859)
HrunII	40.0	$0.638 \; (0.679)$	40.0	$0.662 \ (0.679)$
Hdiff	35.0	0.845 (0.883)	35.0	0.812 (0.883)
VV	30.0	1.416 (1.410)	30.0	1.271 (1.410)
LEP	40.0	1.239 (1.240)	40.0	1.244 (1.240)
Total	317.0	$0.976 \ (1.055)$	317.0	$0.986 \ (1.055)$

Table 17: χ^2 table for grouped data. In parenthesis is the total SM χ^2 for the dataset included in the fit. The SM column refers to all the datasets available in the group