Class	Coefficients	NS NLO quadratic		NS LO quadratic	
		Fitted	Fixed	Fitted	Fixed
2FB	$c_{t\varphi}$	✓		✓	
	c_{tG}	✓		✓	
	$c_{b\varphi}$	✓		✓	
	$c_{c\varphi}$	✓		✓	
	$c_{\tau\varphi}$	✓		✓	
	c_{tW}	✓		✓	
	c_{tZ}	✓		✓	
	$c_{\varphi l_1}$		$= -\,0.250\ c_{\varphi D}$		$= -\,0.250\ c_{\varphi D}$
	$c_{\varphi l_1}^3$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$
	$c_{\varphi l_2}$		$= -\,0.250\ c_{\varphi D}$		$= -\,0.250\ c_{\varphi D}$
	$c_{\varphi l_2}^3$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$
	$c_{\varphi l_3}$		$= -\,0.250\ c_{\varphi D}$		$= -\,0.250\ c_{\varphi D}$
	$c_{\varphi l_3}^3$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$
	$c_{\varphi e}$		$= -\,0.500\ c_{\varphi D}$		$= -\,0.500\ c_{\varphi D}$
	$c_{\varphi \mu}$		$= -\,0.500\ c_{\varphi D}$		$= -\,0.500\ c_{\varphi D}$
	$c_{\varphi \tau}$		$= -\,0.500\ c_{\varphi D}$		$= -\,0.500\ c_{\varphi D}$
	$c_{\varphi q}^3$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$		$= -\,0.842\ c_{\varphi D} -\,1.835\ c_{\varphi WB}$
	$c_{\varphi Q}^3$	✓		✓	
	$c_{\varphi q}^{(-)}$		$= +\,0.925\ c_{\varphi D} +\,1.835\ c_{\varphi WB}$		$= +\,0.925\ c_{\varphi D} +\,1.835\ c_{\varphi WB}$
	$c_{\varphi Q}^{(-)}$	✓		✓	
	$c_{\varphi u}$		$= +\,0.333\ c_{\varphi D}$		$= +\,0.333\ c_{\varphi D}$
	$c_{\varphi d}$		$= -\,0.167\ c_{\varphi D}$		$= -\,0.167\ c_{\varphi D}$
	$c_{\varphi t}$	✓		✓	
	c_{ll}		$= +\,0.0$		$= +\,0.0$
2Q2q	$c_{qq}^{1,8}$	✓		✓	
	$c_{qq}^{1,1}$	✓		✓	
	$c_{qq}^{8,3}$	✓		✓	
	$c_{qq}^{1,3}$	✓		✓	
	c_{qt}^8	✓		✓	
	c_{qt}^1	✓		✓	
	c_{ut}^8	✓		✓	
	c_{ut}^1	✓		✓	
	c_{qu}^8	✓		✓	
	c_{qu}^1	✓		✓	
	c_{dt}^8	✓		✓	
	c_{dt}^1	✓		✓	
	c_{qd}^8	✓		✓	
	c_{qd}^1	✓		✓	
4Q	c_{QQ}^1	✓		✓	
	c_{QQ}^8	✓		✓	
	c_{Qt}^1	✓		✓	
	c_{Qt}^8	✓		✓	
	c_{tt}^1	✓		✓	
B	$c_{\varphi G}$	✓		✓	
	$c_{\varphi B}$	✓		✓	
	$c_{\varphi W}$	✓		✓	
	$c_{\varphi WB}$	✓		✓	
	$c_{\varphi \Box}$	✓		✓	
	$c_{\varphi D}$	✓		✓	
	c_{WWW}	✓		✓	
	Number fitted coefficients	36		36	

Table 1: Coefficient comparison

Type	Datasets	NS NLO quadratic	NS LO quadratic
4H	CMS_ttbb_13TeV	✓	✓
	CMS_ttbb_13TeV_2016	✓	✓
	ATLAS_ttbb_13TeV_2016	✓	✓
	CMS_tttt_13TeV	✓	✓
	CMS_tttt_13TeV_run2	✓	✓
	ATLAS_tttt_13TeV_run2	✓	✓
AC	ATLAS_CMS_tt_AC_8TeV	✓	✓
	ATLAS_tt_AC_13TeV	✓	✓
Hdiff	ATLAS_ggF_ZZ_13TeV	✓	✓
	CMS_ggF_aa_13TeV	✓	✓
	ATLAS_H_13TeV_2015_pTH	✓	✓
	CMS_H_13TeV_2015_pTH	✓	✓
	ATLAS_WH_Hbb_13TeV	✓	✓
	ATLAS_ZH_Hbb_13TeV	✓	✓
HrunI	ATLAS_CMS_SSinc_RunI	✓	✓
HrunII	ATLAS_SSinc_RunII	✓	✓
	CMS_SSinc_RunII	✓	✓
LEP	LEP_eeWW_182GeV	✓	✓
	LEP_eeWW_189GeV	✓	✓
	LEP_eeWW_198GeV	✓	✓
	LEP_eeWW_206GeV	✓	✓
VV	ATLAS_WW_13TeV_2016_memu	✓	✓
	ATLAS_WZ_13TeV_2016_mTWZ	✓	✓
	CMS_WZ_13TeV_2016_pTZ	✓	✓
WhelF	ATLAS_WhelF_8TeV	✓	✓
	CMS_WhelF_8TeV	✓	✓
t13	CMS_t_tch_13TeV_inc	✓	✓
	CMS_t_tch_13TeV_diff_Yt	✓	✓
	CMS_t_tch_13TeV_2016_diff_Yt	✓	✓
	ATLAS_t_tch_13TeV	✓	✓
t8	CMS_t_tch_8TeV_inc	✓	✓
	CMS_t_tch_8TeV_diff_Yt	✓	✓
	CMS_t_sch_8TeV	✓	✓
	ATLAS_t_tch_8TeV	✓	✓
	ATLAS_t_sch_8TeV	✓	✓
tW	ATLAS_tW_8TeV_inc	✓	✓
	ATLAS_tW_slep_8TeV_inc	✓	✓
	CMS_tW_8TeV_inc	✓	✓
	ATLAS_tW_13TeV_inc	✓	✓
	CMS_tW_13TeV_inc	✓	✓
tZ	ATLAS_tZ_13TeV_inc	✓	✓
	ATLAS_tZ_13TeV_run2_inc	✓	✓
	CMS_tZ_13TeV_inc	✓	✓
	CMS_tZ_13TeV_2016_inc	✓	✓
tt13	CMS_tt_13TeV_ljets_2015_Mtt	✓	✓
	CMS_tt_13TeV_dilep_2015_Mtt	✓	✓
	CMS_tt_13TeV_ljets_2016_Mtt	✓	✓
	CMS_tt_13TeV_dilep_2016_Mtt	✓	✓
	ATLAS_tt_13TeV_ljets_2016_Mtt	✓	✓
tt8	ATLAS_tt_8TeV_ljets_Mtt	✓	✓
	ATLAS_tt_8TeV_dilep_Mtt	✓	✓
	CMS_tt_8TeV_ljets_Ytt	✓	✓
	CMS_tt2D_8TeV_dilep_MttYtt	✓	✓
ttW	ATLAS_ttW_8TeV	✓	✓
	ATLAS_ttW_13TeV	✓	✓
	ATLAS_ttW_13TeV_2016	✓	✓
	CMS_ttW_8TeV	✓	✓
	CMS_ttW_13TeV	✓	✓
ttZ	ATLAS_ttZ_8TeV	✓	✓
	ATLAS_ttZ_13TeV	✓	✓
	ATLAS_ttZ_13TeV_2016	✓	✓
	CMS_ttZ_8TeV	✓	✓
	CMS_ttZ_13TeV	✓	✓
	CMS_ttZ_13TeV_pTZ	✓	✓

Table 1: Dataset comparison

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 quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
CMS_ttbb_13TeV	1	4.959	6.653	6.939
CMS_ttbb_13TeV_2016	1	1.754	3.086	3.328
ATLAS_ttbb_13TeV_2016	1	0.906	0.561	0.585
CMS_tttt_13TeV	1	0.055	0.082	0.083
CMS_tttt_13TeV_run2	1	0.051	1.992	2.012
ATLAS_tttt_13TeV_run2	1	2.352	0.316	0.310
Total			2.115 (1.679)	2.209 (1.679)

Table 1: χ^2 table for 4H data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_CMS_tt_AC_8TeV	6	0.861	0.857	0.823
ATLAS_tt_AC_13TeV	5	0.275	0.255	0.277
Total			0.583 (0.595)	0.575 (0.595)

Table 2: χ^2 table for AC data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ggF_ZZ_13TeV	6	0.958	0.807	0.726
CMS_ggF_aa_13TeV	6	1.049	0.988	0.940
ATLAS_H_13TeV_2015_pTH	9	1.11	1.101	1.069
CMS_H_13TeV_2015_pTH	9	0.8	0.781	0.736
ATLAS_WH_Hbb_13TeV	2	0.1	0.193	0.116
ATLAS_ZH_Hbb_13TeV	3	0.496	0.305	0.312
Total			0.829 (0.883)	0.783 (0.883)

Table 3: χ^2 table for Hdiff data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_CMS_SSinc_RunI	22	0.859	0.877	0.971
Total			0.877 (0.859)	0.971 (0.859)

Table 4: χ^2 table for HrunI data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_SSinc_RunII	16	0.542	0.534	0.521
CMS_SSinc_RunII	24	0.771	0.724	0.766
Total			0.648 (0.679)	0.668 (0.679)

Table 5: χ^2 table for HrunII data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
LEP_eeWW_182GeV	10	1.38	1.379	1.379
LEP_eeWW_189GeV	10	0.885	0.886	0.885
LEP_eeWW_198GeV	10	1.609	1.609	1.609
LEP_eeWW_206GeV	10	1.085	1.082	1.084
Total			1.239 (1.240)	1.239 (1.240)

Table 6: χ^2 table for LEP data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
ATLAS_WW_13TeV_2016_memu	13	1.651	1.673	1.710
ATLAS_WZ_13TeV_2016_mTWZ	6	0.861	0.816	0.853
CMS_WZ_13TeV_2016_pTZ	11	1.423	1.391	1.417
Total			1.398 (1.410)	1.431 (1.410)

Table 7: χ^2 table for VV data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
ATLAS_WhelF_8TeV	3	1.967	1.368	1.337
CMS_WhelF_8TeV	3	0.296	0.591	0.614
Total			0.979 (1.131)	0.975 (1.131)

Table 8: χ^2 table for WhelF data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
CMS_t_tch_13TeV_inc	2	0.345	0.352	0.302
CMS_t_tch_13TeV_diff_Yt	4	0.476	0.487	0.484
CMS_t_tch_13TeV_2016_diff_Yt	5	0.58	0.580	0.576
ATLAS_t_tch_13TeV	2	0.011	0.018	0.019
Total			0.430 (0.424)	0.420 (0.424)

Table 9: χ^2 table for t13 data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
CMS_t_tch_8TeV_inc	2	0.293	0.174	0.160
CMS_t_tch_8TeV_diff_Yt	6	0.11	0.146	0.200
CMS_t_sch_8TeV	1	1.265	1.171	0.903
ATLAS_t_tch_8TeV	4	0.89	0.707	0.644
ATLAS_t_sch_8TeV	1	0.085	0.209	1.092
Total			0.388 (0.440)	0.435 (0.440)

Table 10: χ^2 table for t8 data

	N_{data}	SM χ^2/N_{data}	NS NLO quadratic χ^2/N_{data}	NS LO quadratic χ^2/N_{data}
Process				
ATLAS_tW_8TeV_inc	1	0.026	0.033	0.011
ATLAS_tW_slep_8TeV_inc	1	0.134	0.103	0.147
CMS_tW_8TeV_inc	1	0.0	0.004	0.000
ATLAS_tW_13TeV_inc	1	0.549	0.492	0.570
CMS_tW_13TeV_inc	1	3.855	4.489	3.663
Total			1.024 (0.913)	0.878 (0.913)

Table 11: χ^2 table for tW data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_tZ_13TeV_inc	1	0.0	0.003	0.036
ATLAS_tZ_13TeV_run2_inc	1	0.048	0.007	0.052
CMS_tZ_13TeV_inc	1	0.678	0.662	0.635
CMS_tZ_13TeV_2016_inc	1	1.23	1.178	1.086
Total			0.463 (0.489)	0.452 (0.489)

Table 12: χ^2 table for tZ data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
CMS_tt_13TeV_ljets_2015_Mtt	8	0.939	0.963	0.819
CMS_tt_13TeV_dilep_2015_Mtt	6	1.299	1.522	1.267
CMS_tt_13TeV_ljets_2016_Mtt	10	1.992	2.212	1.739
CMS_tt_13TeV_dilep_2016_Mtt	7	2.282	2.515	2.224
ATLAS_tt_13TeV_ljets_2016_Mtt	7	0.986	1.034	1.219
Total			1.679 (1.529)	1.464 (1.529)

Table 13: χ^2 table for tt13 data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_tt_8TeV_ljets_Mtt	7	2.953	2.720	2.903
ATLAS_tt_8TeV_dilep_Mtt	6	0.086	0.121	0.050
CMS_tt_8TeV_ljets_Ytt	10	0.906	1.047	0.926
CMS_tt2D_8TeV_dilep_MttYtt	16	1.628	1.113	1.465
Total			1.232 (1.443)	1.367 (1.443)

Table 14: χ^2 table for tt8 data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ttW_8TeV	1	1.334	1.213	0.552
ATLAS_ttW_13TeV	1	0.828	0.812	0.729
ATLAS_ttW_13TeV_2016	1	0.225	0.003	0.059
CMS_ttW_8TeV	1	1.781	1.645	0.963
CMS_ttW_13TeV	1	0.028	0.169	0.030
Total			0.768 (0.839)	0.467 (0.839)

Table 15: χ^2 table for ttW data

		SM	NS NLO quadratic	NS LO quadratic
Process	N_{data}	χ^2/N_{data}	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ttZ_8TeV	1	1.314	1.325	1.362
ATLAS_ttZ_13TeV	1	0.007	0.060	0.060
ATLAS_ttZ_13TeV_2016	1	0.001	0.123	0.125
CMS_ttZ_8TeV	1	0.042	0.040	0.034
CMS_ttZ_13TeV	1	1.011	0.434	0.430
CMS_ttZ_13TeV_pTZ	4	0.732	0.825	0.705
Total			0.587 (0.589)	0.537 (0.589)

Table 16: χ^2 table for ttZ data

| Process	NS NLO quadratic N_{data}	χ^2/N_{data}	NS LO quadratic N_{data}	χ^2/N_{data}
tt8	39.0	1.232 (1.443)	39.0	1.367 (1.443)
tt13	38.0	1.679 (1.529)	38.0	1.464 (1.529)
WhelF	6.0	0.979 (1.131)	6.0	0.975 (1.131)
AC	11.0	0.583 (0.595)	11.0	0.575 (0.595)
4H	6.0	2.115 (1.679)	6.0	2.209 (1.679)
ttZ	9.0	0.587 (0.589)	9.0	0.537 (0.589)
ttW	5.0	0.768 (0.839)	5.0	0.467 (0.839)
t8	14.0	0.388 (0.440)	14.0	0.435 (0.440)
t13	13.0	0.430 (0.424)	13.0	0.420 (0.424)
tW	5.0	1.024 (0.913)	5.0	0.878 (0.913)
tZ	4.0	0.463 (0.489)	4.0	0.452 (0.489)
HrunI	22.0	0.877 (0.859)	22.0	0.971 (0.859)
HrunII	40.0	0.648 (0.679)	40.0	0.668 (0.679)
Hdiff	35.0	0.829 (0.883)	35.0	0.783 (0.883)
VV	30.0	1.398 (1.410)	30.0	1.431 (1.410)
LEP	40.0	1.239 (1.240)	40.0	1.239 (1.240)
Total	317.0	1.040 (1.055)	317.0	1.033 (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
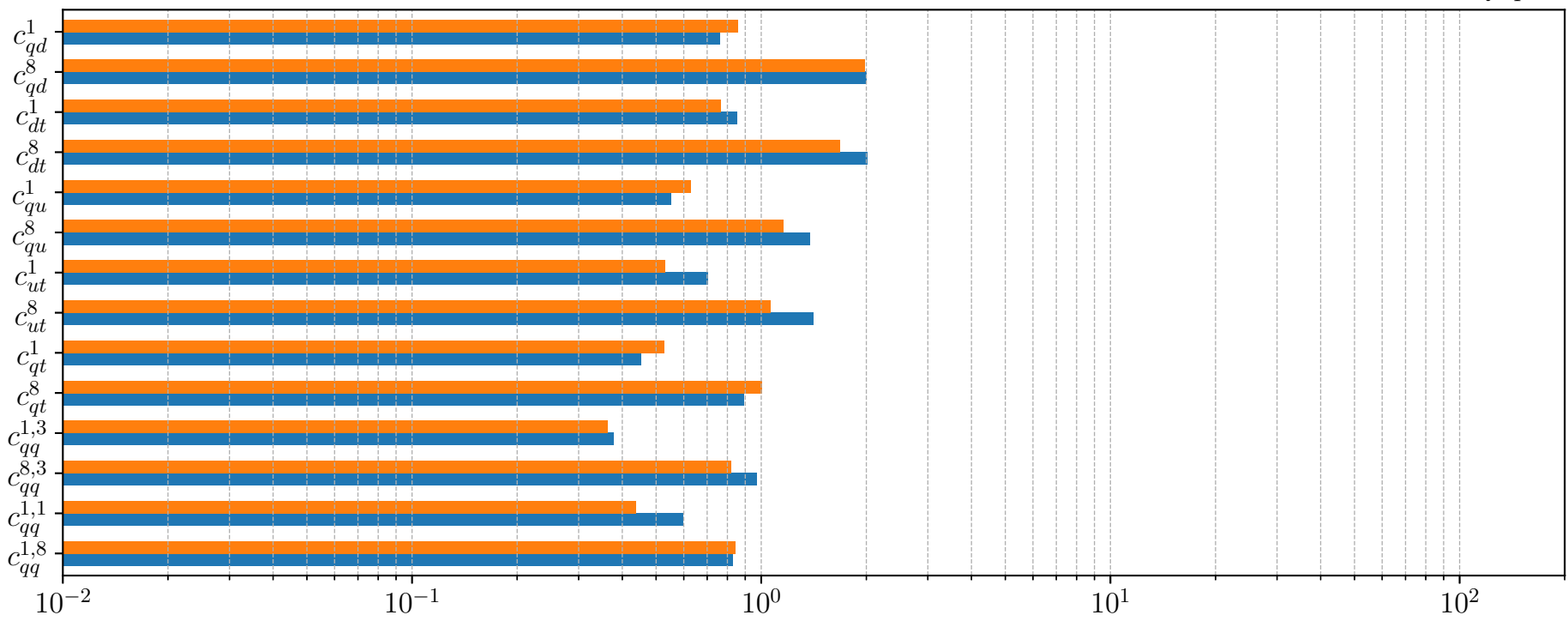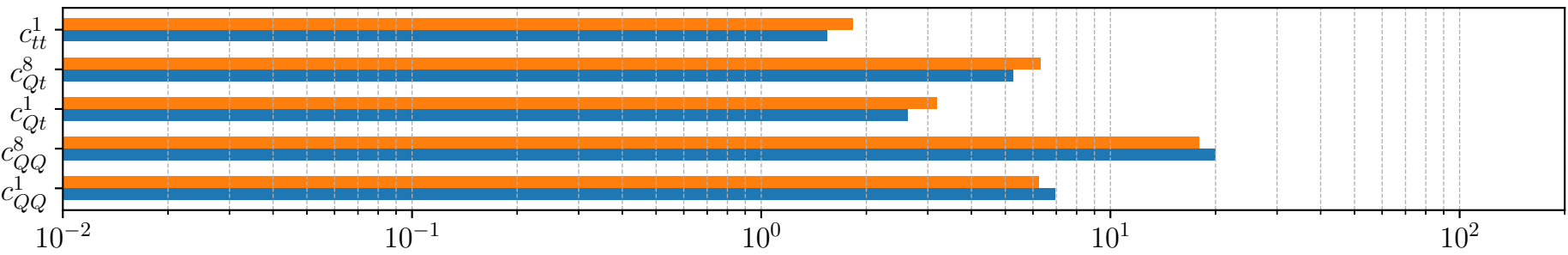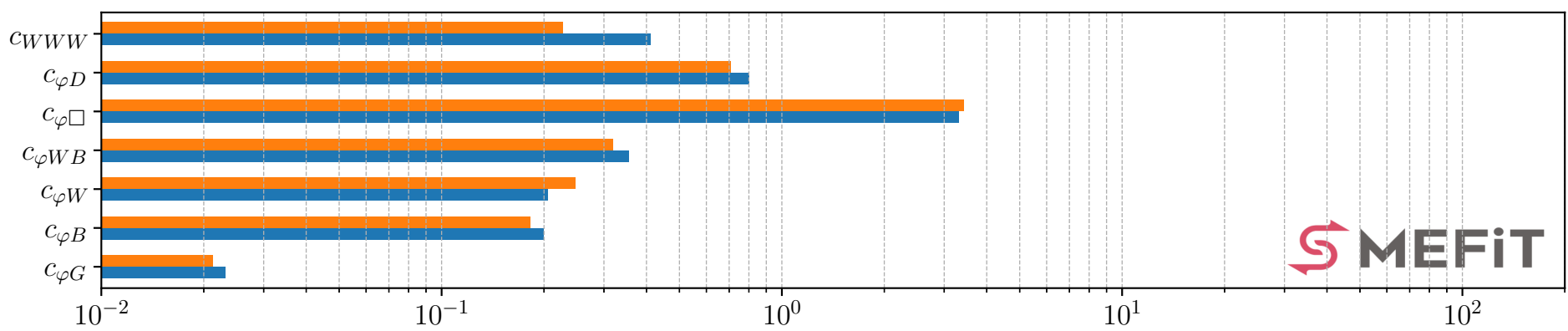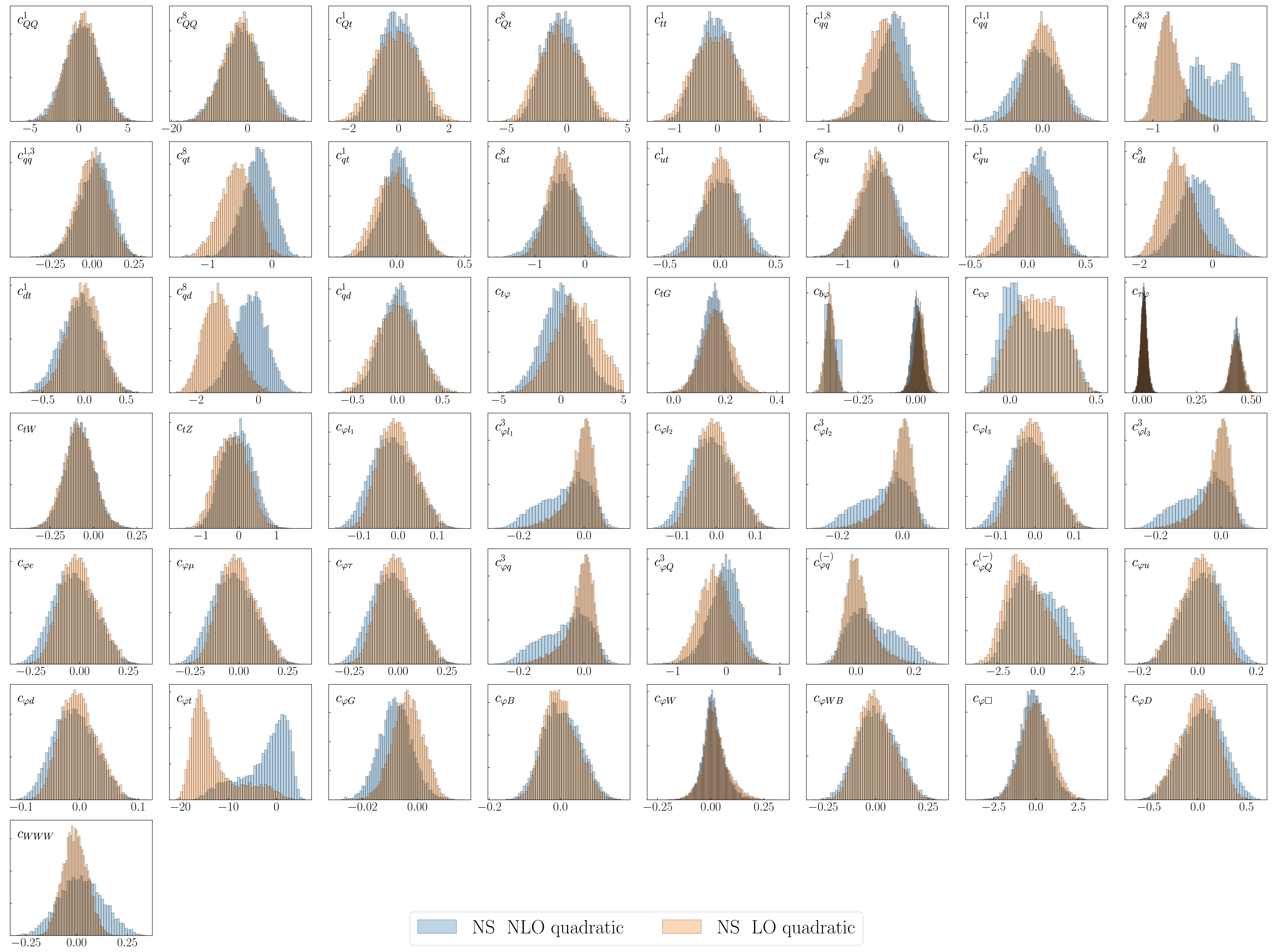
Legend:
- NS NLO quadratic
- NS LO quadratic

χ^2 distribution
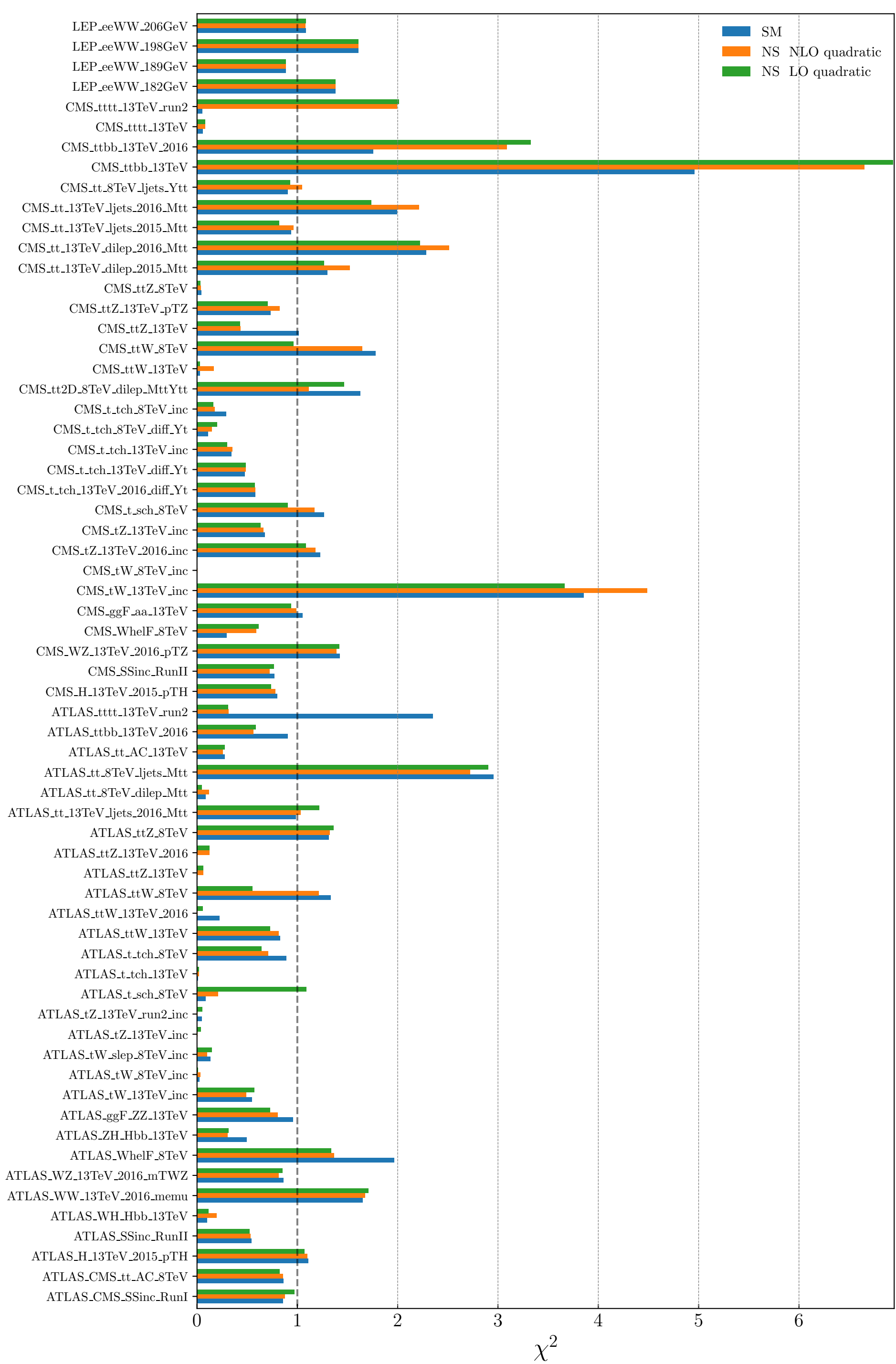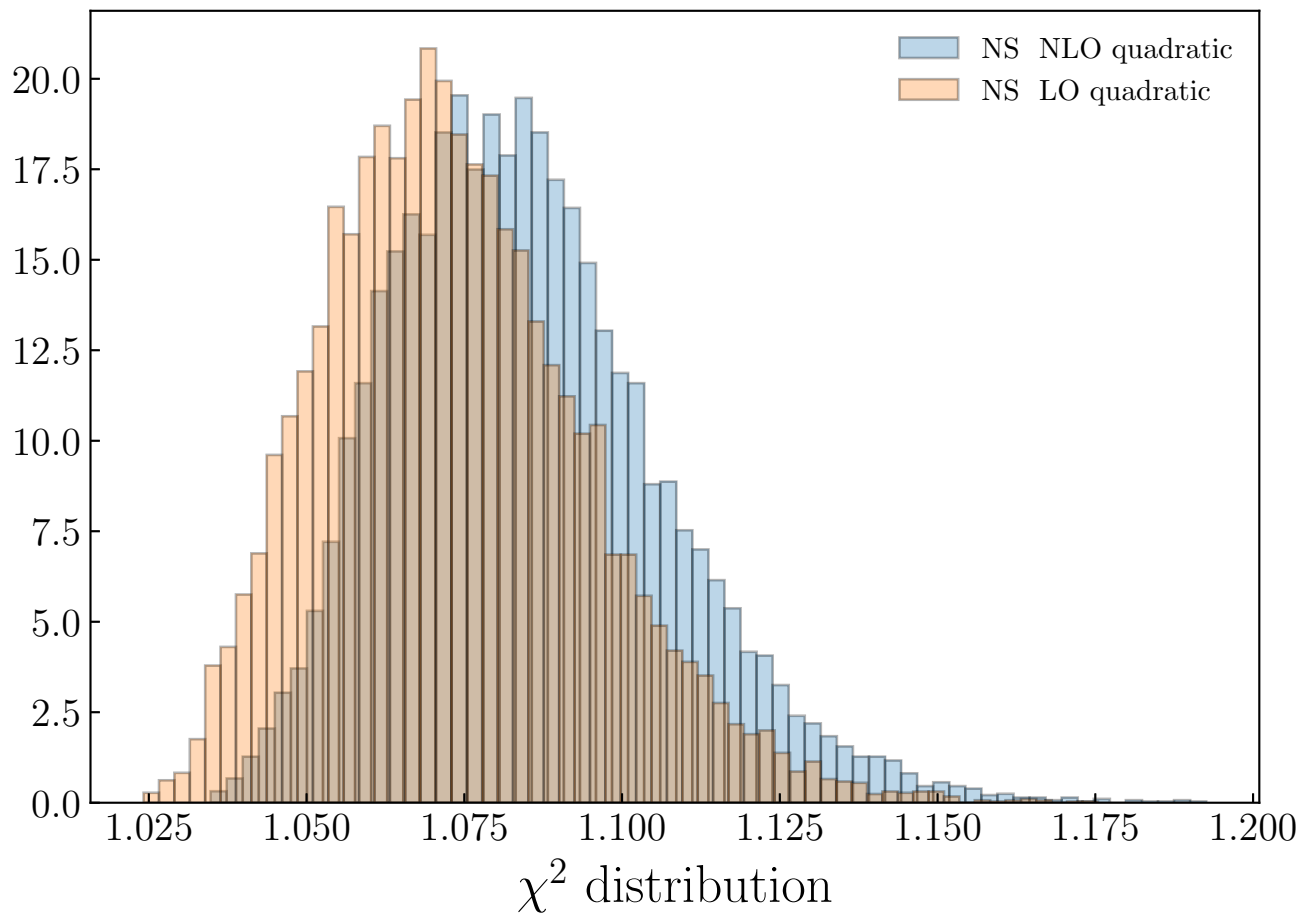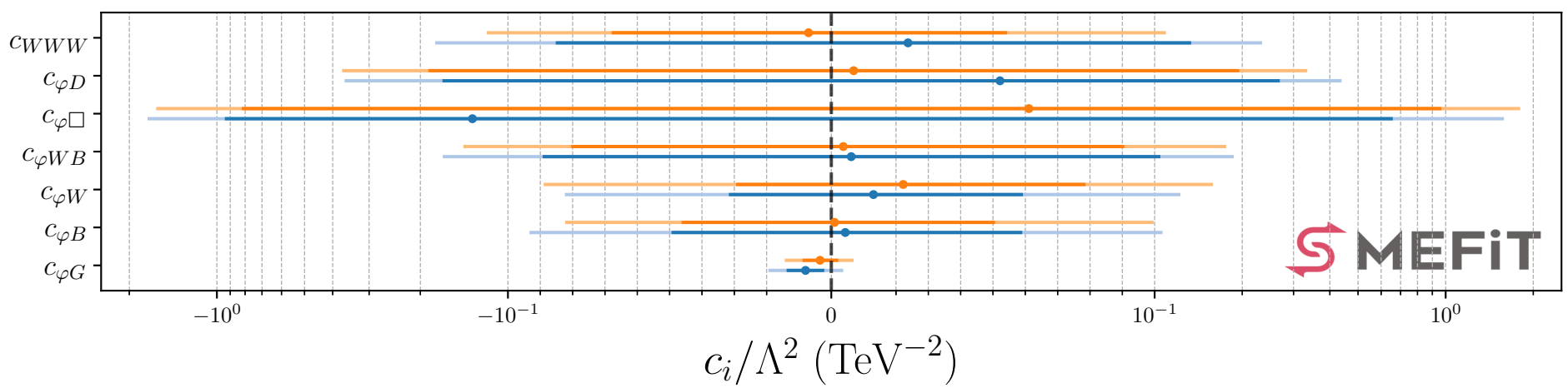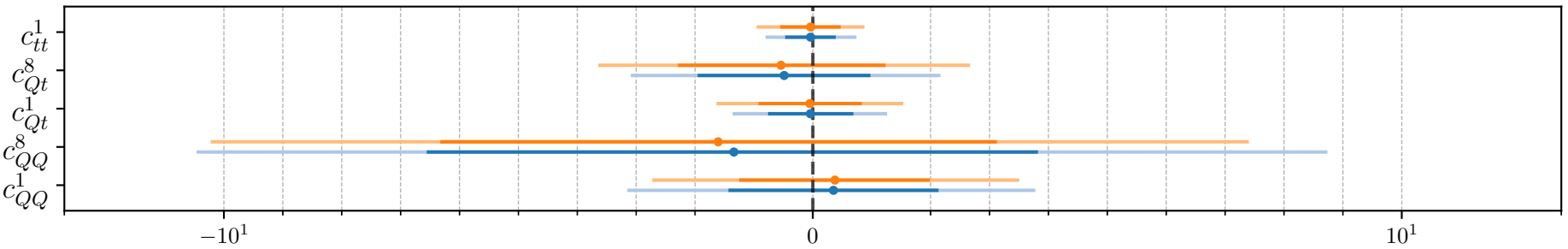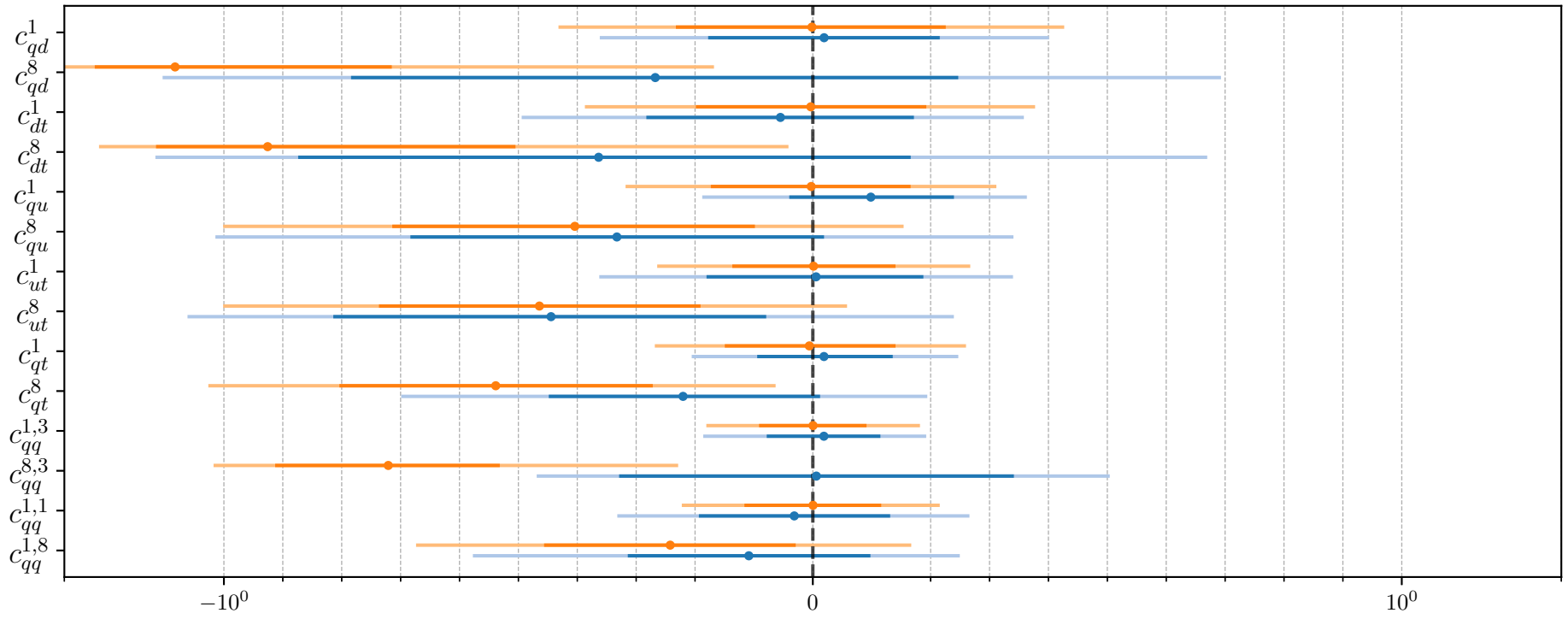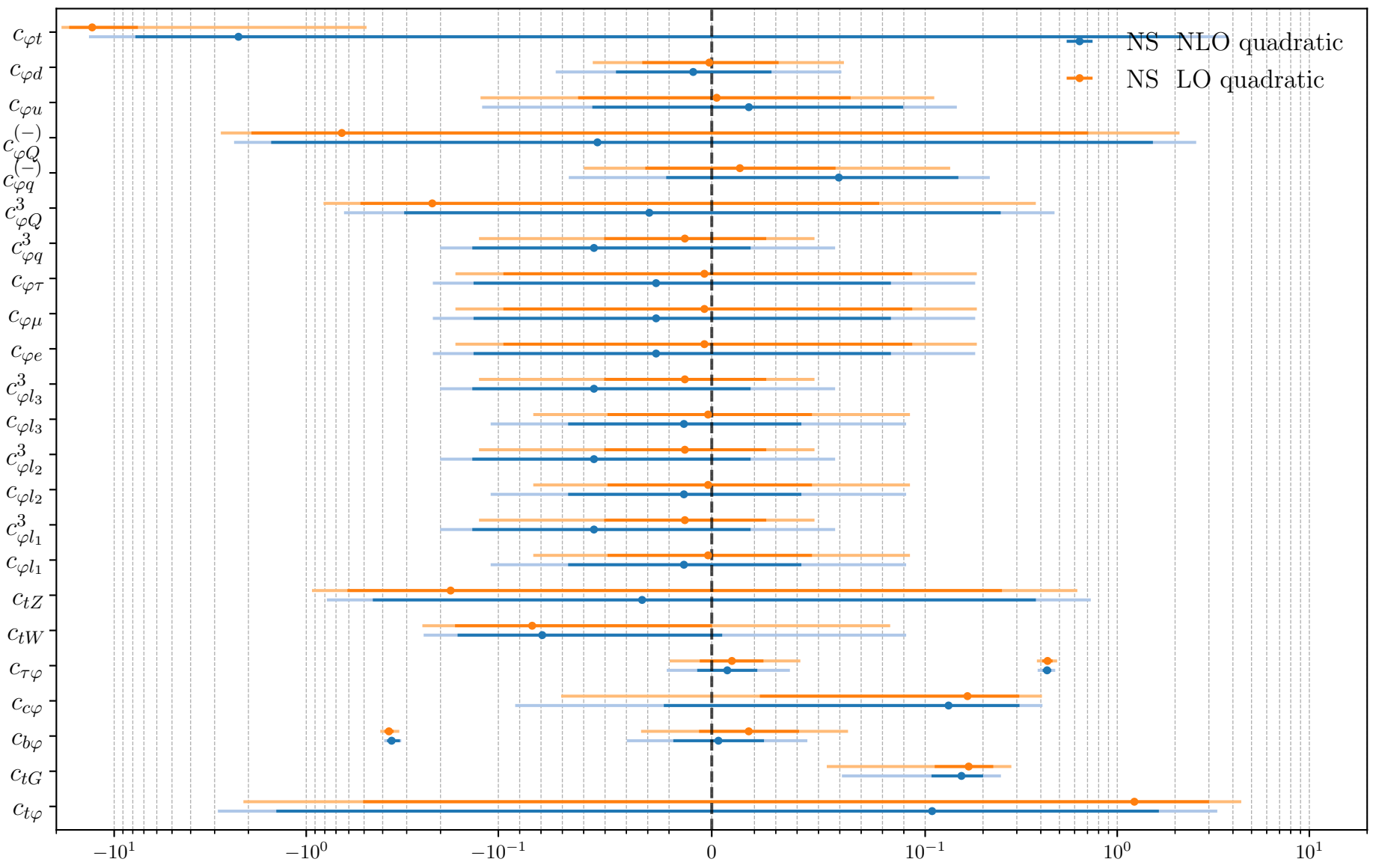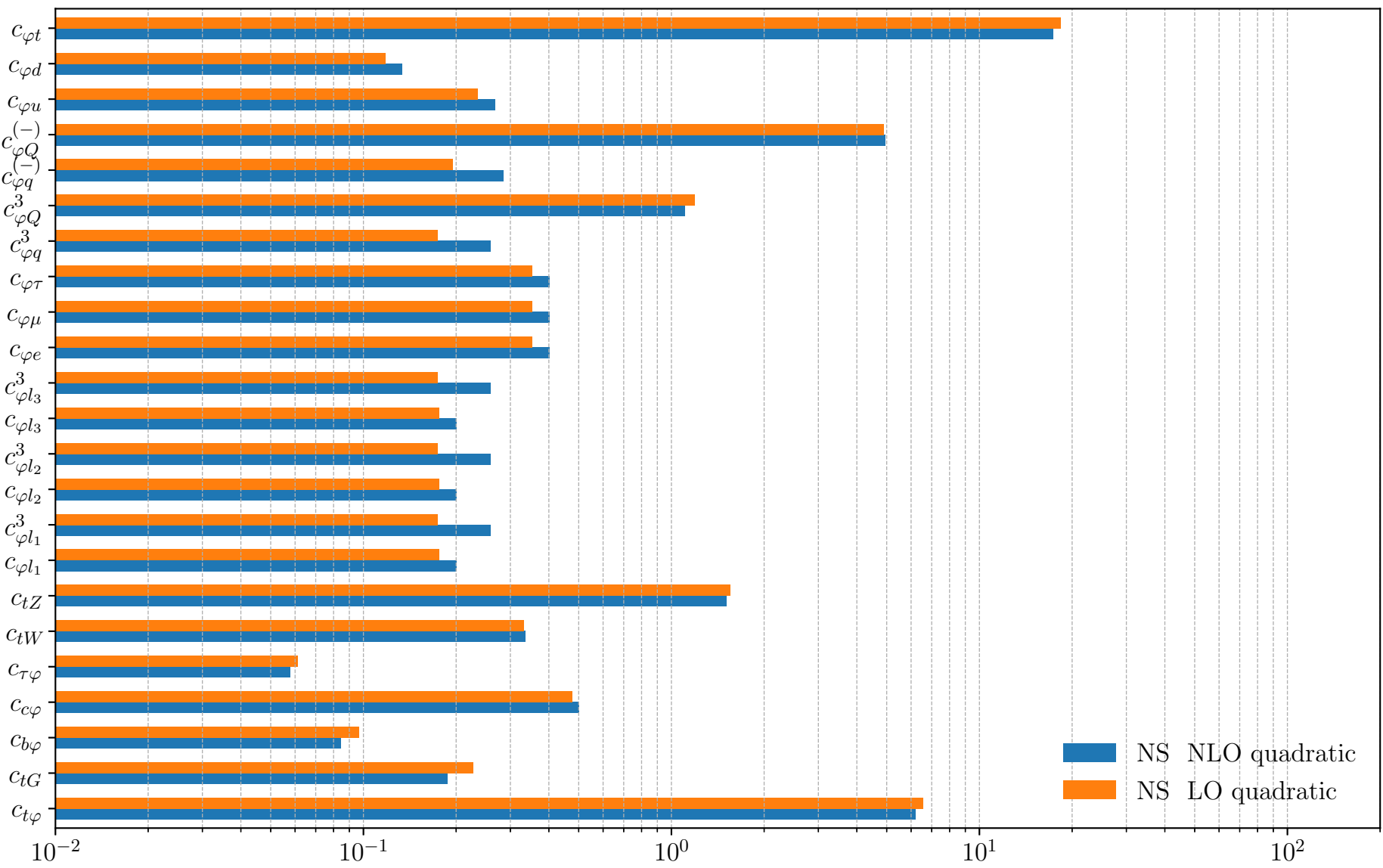
NS NLO quadratic   NS LO quadratic

Class	Coefficients	NS NLO quadratic			NS LO quadratic		
		best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bounds
2FB	$c_{t\varphi}$	0.1087	[-1.4317,1.647]	[-2.8853,3.3168]	1.2276	[-0.5057,3.0038]	[-2.1241,4.4216]
	c_{tG}	0.1545	[0.1079,0.2004]	[0.061,0.2479]	0.1685	[0.1121,0.2262]	[0.0539,0.281]
	$c_{b\varphi}$	0.0031	[-0.018,0.0245]	[-0.0398,0.0448]	0.0173	[-0.0059,0.0409]	[-0.0331,0.0639]
		-0.3593	[-0.3795,-0.3251]	[-0.3926,-0.3201]	-0.3711	[-0.3917,-0.3508]	[-0.4118,-0.3277]
	$c_{c\varphi}$	0.1324	[-0.0225,0.3098]	[-0.0921,0.4079]	0.1661	[0.0225,0.3089]	[-0.0706,0.4055]
	$c_{\tau\varphi}$	0.0073	[-0.0068,0.0213]	[-0.0211,0.0366]	0.0094	[-0.0056,0.0242]	[-0.0197,0.0415]
		0.4312	[0.4091,0.4536]	[0.3851,0.4754]	0.4337	[0.4071,0.4605]	[0.3816,0.4863]
	c_{tW}	-0.0794	[-0.163,0.0049]	[-0.2448,0.0911]	-0.0841	[-0.1681,0.0002]	[-0.2486,0.0836]
	c_{tZ}	-0.0326	[-0.4503,0.377]	[-0.7813,0.7281]	-0.1771	[-0.6105,0.251]	[-0.9338,0.6197]
	$c_{\varphi l_1}$	-0.013	[-0.0673,0.042]	[-0.1096,0.0911]	-0.0017	[-0.0488,0.047]	[-0.0836,0.0929]
	$c_{\varphi l_1}^3$	-0.0552	[-0.1366,0.0182]	[-0.201,0.0578]	-0.0126	[-0.0504,0.0255]	[-0.1261,0.0481]
	$c_{\varphi l_2}$	-0.013	[-0.0673,0.042]	[-0.1096,0.0911]	-0.0017	[-0.0488,0.047]	[-0.0836,0.0929]
	$c_{\varphi l_2}^3$	-0.0552	[-0.1366,0.0182]	[-0.201,0.0578]	-0.0126	[-0.0504,0.0255]	[-0.1261,0.0481]
	$c_{\varphi l_3}$	-0.013	[-0.0673,0.042]	[-0.1096,0.0911]	-0.0017	[-0.0488,0.047]	[-0.0836,0.0929]
	$c_{\varphi l_3}^3$	-0.0552	[-0.1366,0.0182]	[-0.201,0.0578]	-0.0126	[-0.0504,0.0255]	[-0.1261,0.0481]
	$c_{\varphi e}$	-0.0261	[-0.1346,0.0839]	[-0.2193,0.1822]	-0.0035	[-0.0976,0.0939]	[-0.1673,0.1857]
	$c_{\varphi \mu}$	-0.0261	[-0.1346,0.0839]	[-0.2193,0.1822]	-0.0035	[-0.0976,0.0939]	[-0.1673,0.1857]
	$c_{\varphi \tau}$	-0.0261	[-0.1346,0.0839]	[-0.2193,0.1822]	-0.0035	[-0.0976,0.0939]	[-0.1673,0.1857]
	$c_{\varphi q}^3$	-0.0552	[-0.1366,0.0182]	[-0.201,0.0578]	-0.0126	[-0.0504,0.0255]	[-0.1261,0.0481]
	$c_{\varphi Q}^3$	-0.0293	[-0.3091,0.2473]	[-0.6358,0.4714]	-0.2208	[-0.5222,0.0785]	[-0.8131,0.3767]
	$c_{\varphi q}^{(-)}$	0.0595	[-0.0213,0.1488]	[-0.067,0.217]	0.0132	[-0.0311,0.058]	[-0.0599,0.135]
	$c_{\varphi Q}^{(-)}$	-0.0536	[-1.5228,1.5331]	[-2.3754,2.5761]	-0.6529	[-1.9291,0.7061]	[-2.7846,2.1089]
	$c_{\varphi u}$	0.0174	[-0.056,0.0897]	[-0.1214,0.1462]	0.0023	[-0.0626,0.0651]	[-0.1238,0.1115]
	$c_{\varphi d}$	-0.0087	[-0.0449,0.028]	[-0.0731,0.0607]	-0.0012	[-0.0326,0.0313]	[-0.0558,0.0619]
	$c_{\varphi t}$	-2.2533	[-7.7508,2.235]	[-13.5252,3.7977]	-13.0184	[-17.1459,-7.5216]	[-18.802,-0.4853]
2Q2q	$c_{qq}^{1,8}$	-0.1087	[-0.3142,0.0978]	[-0.5772,0.2495]	-0.2422	[-0.4563,-0.0291]	[-0.6737,0.1671]
	$c_{qq}^{1,1}$	-0.0316	[-0.1935,0.1313]	[-0.332,0.2659]	0.0003	[-0.1162,0.1161]	[-0.2225,0.2155]
	$c_{qq}^{8,3}$	0.006	[-0.3289,0.3414]	[-0.4689,0.5042]	-0.7209	[-0.913,-0.5315]	[-1.046,-0.2287]
	$c_{qq}^{1,3}$	0.0188	[-0.0783,0.1147]	[-0.1861,0.1925]	0.0004	[-0.0913,0.0911]	[-0.1809,0.1819]
	c_{qt}^8	-0.2204	[-0.4484,0.0123]	[-0.6989,0.1943]	-0.5384	[-0.8039,-0.2718]	[-1.07,-0.0632]
	c_{qt}^1	0.0189	[-0.0945,0.1357]	[-0.2057,0.247]	-0.006	[-0.1495,0.1404]	[-0.2683,0.2601]
	c_{ut}^8	-0.4446	[-0.8143,-0.0792]	[-1.1713,0.2395]	-0.4643	[-0.7367,-0.1907]	[-1.0033,0.0581]
	c_{ut}^1	0.0055	[-0.1805,0.1877]	[-0.3626,0.3399]	0.0012	[-0.1368,0.1403]	[-0.2643,0.2673]
	c_{qu}^8	-0.3327	[-0.6834,0.019]	[-1.0377,0.3406]	-0.4042	[-0.7142,-0.0983]	[-1.0033,0.1541]
	c_{qu}^1	0.0985	[-0.04,0.2396]	[-0.1878,0.3634]	-0.0028	[-0.1732,0.166]	[-0.318,0.3116]
	c_{dt}^8	-0.3637	[-0.8739,0.1662]	[-1.3467,0.6697]	-0.9257	[-1.343,-0.5049]	[-1.7204,-0.0414]
	c_{dt}^1	-0.0551	[-0.2827,0.1716]	[-0.4944,0.3583]	-0.0035	[-0.1986,0.1927]	[-0.3871,0.3774]
	c_{qd}^8	-0.2675	[-0.7841,0.2469]	[-1.3051,0.693]	-1.2363	[-1.7524,-0.7149]	[-2.1496,-0.1679]
	c_{qd}^1	0.0191	[-0.1777,0.2155]	[-0.3617,0.4009]	-0.0015	[-0.2325,0.2257]	[-0.4319,0.4268]
4Q	c_{QQ}^1	0.3504	[-1.4339,2.1345]	[-3.1501,3.778]	0.3754	[-1.2508,1.9873]	[-2.7266,3.5042]
	c_{QQ}^8	-1.3411	[-6.5552,3.8227]	[-11.2609,8.7364]	-1.6071	[-6.326,3.1243]	[-10.5864,7.4043]
	c_{Qt}^1	-0.0432	[-0.7605,0.6881]	[-1.3618,1.2609]	-0.0505	[-0.9246,0.8292]	[-1.6372,1.5369]
	c_{Qt}^8	-0.487	[-1.9572,0.978]	[-3.0912,2.1657]	-0.5409	[-2.2911,1.2356]	[-3.6436,2.6697]
	c_{tt}^1	-0.0392	[-0.4701,0.3902]	[-0.8026,0.7404]	-0.0387	[-0.5535,0.4715]	[-0.9561,0.8757]
B	$c_{\varphi G}$	-0.008	[-0.0138,-0.0022]	[-0.0195,0.0037]	-0.0035	[-0.0089,0.0021]	[-0.0144,0.0069]
	$c_{\varphi B}$	0.0043	[-0.0494,0.059]	[-0.0933,0.1064]	0.001	[-0.0463,0.0506]	[-0.0823,0.0997]
	$c_{\varphi W}$	0.013	[-0.0317,0.0593]	[-0.0824,0.1226]	0.0222	[-0.0295,0.0786]	[-0.0889,0.1586]
	$c_{\varphi WB}$	0.0062	[-0.0893,0.1046]	[-0.1675,0.187]	0.0037	[-0.0805,0.0906]	[-0.1423,0.176]
	$c_{\varphi \square}$	-0.1325	[-0.9392,0.658]	[-1.731,1.586]	0.0611	[-0.8214,0.9671]	[-1.6166,1.8028]
	$c_{\varphi D}$	0.0522	[-0.1679,0.2692]	[-0.3643,0.4386]	0.0069	[-0.1879,0.1953]	[-0.3715,0.3345]
	c_{WWW}	0.0237	[-0.0852,0.1335]	[-0.1779,0.234]	-0.007	[-0.0679,0.0544]	[-0.1183,0.1093]

Table 1: Coefficient comparison
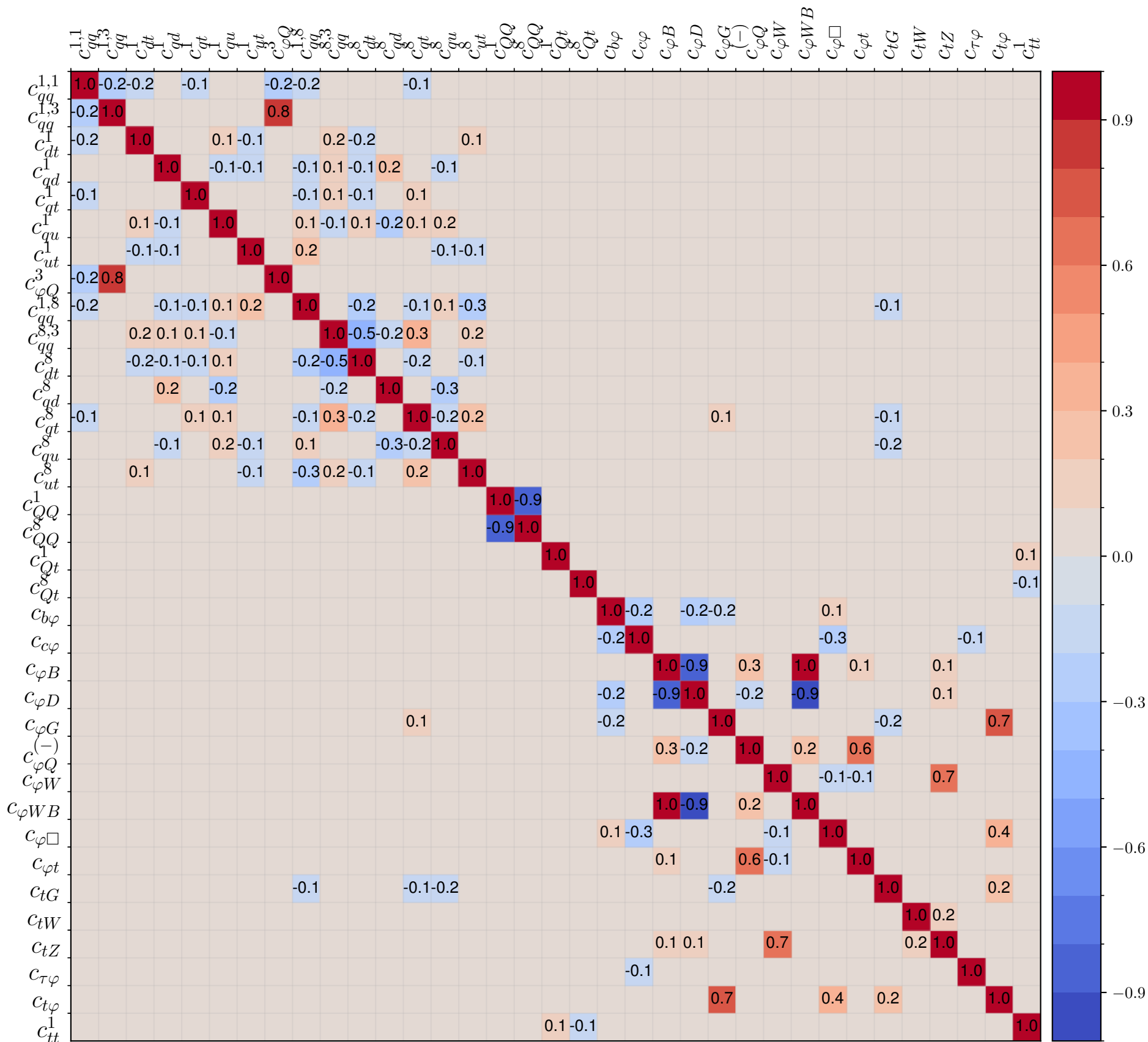
Correlation: NS NLO quadratic
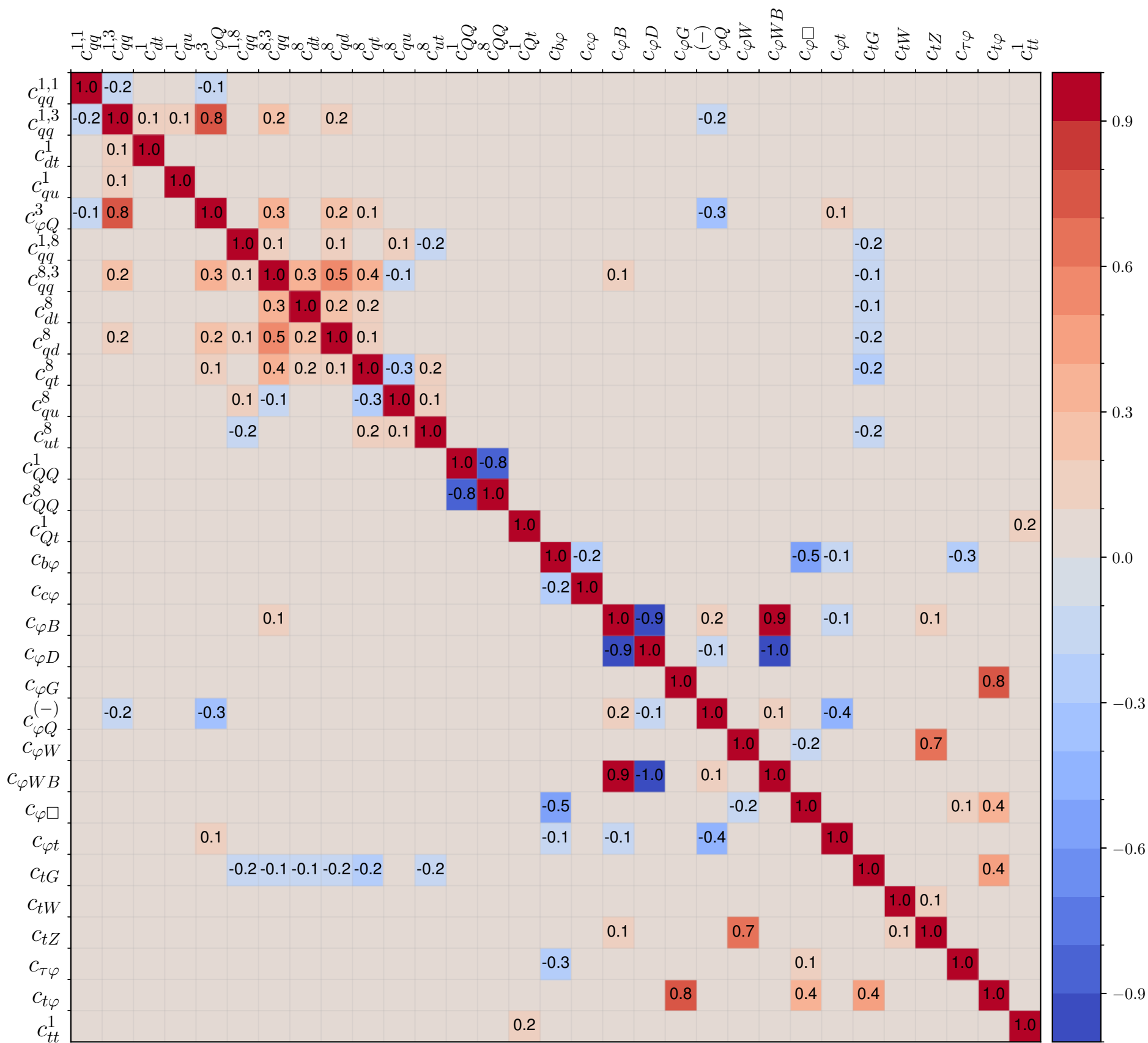
Correlation: NS LO quadratic

Principal Components Analysis: NS NLO quadratic

PC00 (5.36e+05): $-0.655c_{\varphi B} +0.621c_{\varphi G} +0.365c_{\varphi WB} -0.199c_{\varphi W} +0.087c_{b\varphi} -0.039c_{tW} +0.036c_{tG} +0.035c_{tZ} +0.028c_{c\varphi}$ $+0.013c_{\tau\varphi}$

PC01 (1.90e+05): $-0.776c_{\varphi G} -0.531c_{\varphi B} +0.289c_{\varphi WB} -0.162c_{\varphi W} -0.044c_{b\varphi} -0.042c_{tG} -0.032c_{tW} +0.029c_{tZ} -0.014c_{c\varphi}$

PC02 (4.44e+03): $+0.830c_{\tau\varphi} -0.504c_{b\varphi} -0.162c_{\varphi WB} -0.099c_{\varphi B} -0.099c_{\varphi D} -0.096c_{c\varphi} +0.046c_{\varphi G}$

PC03 (2.33e+03): $-0.721c_{b\varphi} -0.556c_{\tau\varphi} -0.279c_{\varphi WB} -0.194c_{\varphi B} -0.186c_{\varphi D} -0.127c_{c\varphi} +0.073c_{\varphi G} -0.014c_{\varphi W} +0.011c_{tZ}$ $-0.010c_{tW}$

PC04 (1.54e+03): $-0.709c_{\varphi WB} +0.399c_{b\varphi} -0.396c_{\varphi D} -0.357c_{\varphi B} +0.218c_{c\varphi} +0.041c_{\tau\varphi} -0.038c_{\varphi G} -0.030c_{\varphi W} +0.028c_{tG}$ $-0.021c_{tW} +0.019c_{tZ} +0.011c_{\varphi\square}$

PC05 (3.22e+02): $-0.983c_{tG} -0.111c_{c\varphi} -0.071c_{qq}^{1,8} -0.070c_{qt}^{8} +0.054c_{\varphi G} +0.047c_{b\varphi} -0.032c_{\varphi WB} -0.031c_{ut}^{8} -0.029c_{qu}^{8}$ $+0.021c_{tW} -0.020c_{dt}^{8} -0.019c_{qd}^{8} -0.017c_{\varphi D} -0.017c_{\varphi W} -0.015c_{\varphi B} +0.012c_{\varphi Q}^{(-)}$

PC06 (2.79e+02): $-0.956c_{qq}^{1,3} +0.286c_{\varphi Q}^{3} +0.055c_{tW} +0.028c_{c\varphi} +0.023c_{qq}^{8,3}$

PC07 (1.72e+02): $-0.926c_{c\varphi} -0.233c_{\varphi W} +0.226c_{b\varphi} +0.122c_{tG} -0.111c_{\varphi WB} -0.065c_{\varphi D} -0.062c_{\varphi\square} -0.030c_{qq}^{1,3} +0.023c_{qq}^{1,8}$ $+0.021c_{tW} +0.013c_{t\varphi} -0.013c_{WWW} +0.012c_{qt}^{8}$

PC08 (8.30e+01): $-0.996c_{tW} -0.061c_{qq}^{1,3} +0.052c_{\varphi B} +0.023c_{qq}^{1,8} -0.023c_{c\varphi} -0.022c_{tG} +0.013c_{ut}^{8}$

PC09 (3.29e+01): $-0.795c_{qq}^{1,8} -0.423c_{ut}^{8} -0.231c_{qt}^{8} -0.201c_{dt}^{8} -0.195c_{qq}^{1,1} -0.127c_{ut}^{1} +0.094c_{tG} -0.085c_{qq}^{8,3} -0.074c_{dt}^{1} +0.069c_{\varphi W}$ $+0.068c_{qu}^{1} +0.043c_{qu}^{8} +0.041c_{\varphi Q}^{(-)} -0.035c_{c\varphi} -0.029c_{tW} +0.028c_{qd}^{1} -0.026c_{\varphi t} +0.024c_{qt}^{1} -0.024c_{\varphi B} +0.019c_{\varphi D}$

PC10 (2.25e+01): $+0.880c_{\varphi W} -0.304c_{\varphi B} +0.262c_{\varphi D} -0.217c_{c\varphi} +0.069c_{qq}^{1,8} -0.064c_{\varphi WB} +0.059c_{b\varphi} +0.046c_{WWW} +0.034c_{qt}^{8}$ $+0.029c_{ut}^{8} +0.022c_{t\varphi} -0.014c_{qu}^{1} +0.014c_{dt}^{8} +0.013c_{qq}^{1,1} -0.012c_{qt}^{1} -0.010c_{\varphi Q}^{3}$

PC11 (1.81e+01): $+0.731c_{qt}^{8} -0.354c_{qt}^{1} +0.307c_{qu}^{8} -0.286c_{qu}^{1} -0.241c_{qq}^{8,3} -0.175c_{ut}^{8} +0.145c_{qd}^{8} -0.123c_{qd}^{1} -0.110c_{qq}^{1,1} -0.091c_{ut}^{1}$ $-0.070c_{qq}^{1,8} -0.064c_{dt}^{8} -0.057c_{tG} -0.053c_{\varphi Q}^{(-)} +0.034c_{\varphi t} -0.032c_{\varphi Q}^{3} -0.022c_{dt}^{1} -0.019c_{\varphi W} -0.013c_{qq}^{1,3}$

PC12 (7.64e+00): $-0.948c_{\varphi Q}^{3} -0.285c_{qq}^{1,3} -0.107c_{qq}^{8,3} +0.046c_{qt}^{1} +0.041c_{qu}^{1} -0.030c_{qt}^{8} +0.027c_{qq}^{1,8} +0.024c_{tW} -0.021c_{\varphi D}$ $-0.021c_{qu}^{8} -0.021c_{\varphi Q}^{(-)} +0.018c_{qd}^{1} +0.016c_{WWW}$

PC13 (3.91e+00): $-0.397c_{ut}^{8} +0.383c_{qt}^{1} -0.378c_{qq}^{8,3} +0.362c_{qu}^{1} +0.335c_{qq}^{1,8} -0.302c_{\varphi Q}^{(-)} -0.201c_{dt}^{8} +0.195c_{\varphi t} -0.176c_{qq}^{1,1} +0.167c_{qd}^{1}$ $-0.163c_{qu}^{8} +0.162c_{qt}^{8} +0.094c_{\varphi Q}^{3} -0.085c_{ut}^{1} -0.078c_{dt}^{1} -0.055c_{qd}^{8} -0.039c_{tZ} +0.018c_{qq}^{1,3} -0.015c_{\varphi D} -0.015c_{tG} +0.010c_{t\varphi}$

PC14 (2.46e+00): $-0.973c_{WWW} -0.162c_{\varphi D} +0.108c_{\varphi W} +0.090c_{\varphi WB} -0.045c_{\varphi Q}^{(-)} +0.037c_{\varphi\square} +0.029c_{qu}^{8} +0.024c_{\varphi t} -0.023c_{qq}^{1,8}$

$+0.021c_{qq}^{8,3} +0.019c_{qq}^{1,1} +0.017c_{qu}^1 +0.016c_{\varphi B} +0.014c_{qt}^1 -0.014c_{c\varphi} +0.013c_{qd}^8 -0.013c_{\varphi Q}^3 +0.010c_{ut}^1$

PC15 (2.25e+00): $+0.818c_{\varphi D} -0.380c_{\varphi WB} -0.284c_{\varphi W} -0.216c_{WWW} -0.171c_{\varphi\square} -0.125c_{\varphi B} +0.065c_{c\varphi} +0.061c_{\varphi Q}^{(-)} -0.033c_{t\varphi}$
$-0.031c_{b\varphi} -0.027c_{\varphi t} +0.025c_{qt}^1 +0.023c_{qu}^1 +0.022c_{qt}^8 -0.020c_{\varphi Q}^3 -0.017c_{qq}^{8,3} -0.016c_{tZ} -0.014c_{ut}^8$

PC16 (1.73e+00): $+0.727c_{\varphi Q}^{(-)} -0.447c_{\varphi t} -0.295c_{qu}^8 -0.226c_{qq}^{8,3} -0.207c_{qd}^8 +0.147c_{qt}^8 +0.130c_{qq}^{1,8} -0.123c_{dt}^8 -0.120c_{ut}^8 +0.096c_{tZ}$
$-0.065c_{\varphi D} -0.049c_{WWW} -0.045c_{qq}^{1,1} +0.033c_{qt}^1 +0.032c_{\varphi WB} +0.024c_{\varphi W} +0.023c_{qd}^1 +0.022c_{\varphi\square} +0.018c_{t\varphi} +0.017c_{\varphi Q}^3 +0.017c_{\varphi B}$
$+0.013c_{tG} -0.013c_{dt}^1 -0.011c_{ut}^1$

PC17 (7.86e-01): $-0.522c_{qt}^8 -0.439c_{qt}^1 +0.360c_{qq}^{1,8} -0.313c_{qu}^1 -0.285c_{qq}^{1,1} -0.230c_{ut}^8 +0.214c_{qd}^8 -0.203c_{qq}^{8,3} -0.168c_{ut}^1 +0.128c_{t\varphi}$
$-0.126c_{qd}^1 -0.085c_{qu}^8 -0.075c_{dt}^1 -0.063c_{\varphi\square} -0.048c_{dt}^8 -0.041c_{WWW} +0.037c_{\varphi t} +0.034c_{tt}^1 -0.024c_{\varphi Q}^{(-)} +0.019c_{Qt}^8 +0.017c_{QQ}^1$
$+0.013c_{tG} +0.013c_{\varphi Q}^3$

PC18 (6.11e-01): $-0.820c_{\varphi\square} +0.444c_{t\varphi} -0.176c_{qd}^8 -0.163c_{qu}^8 -0.109c_{\varphi D} -0.109c_{qq}^{1,8} +0.103c_{ut}^8 -0.078c_{\varphi Q}^{(-)} +0.076c_{qt}^8 -0.073c_{qu}^1$
$-0.069c_{qq}^{8,3} +0.058c_{\varphi t} +0.058c_{qq}^{1,1} +0.052c_{c\varphi} +0.050c_{\varphi WB} +0.045c_{\varphi W} +0.040c_{ut}^1 +0.022c_{dt}^1 +0.016c_{\varphi B} +0.011c_{tG}$

PC19 (4.95e-01): $+0.458c_{qd}^8 -0.427c_{ut}^8 +0.412c_{qu}^8 +0.365c_{qq}^{1,1} -0.286c_{\varphi\square} +0.238c_{qu}^1 +0.203c_{\varphi Q}^{(-)} +0.195c_{ut}^1 +0.163c_{qq}^{1,8} -0.133c_{\varphi t}$
$+0.121c_{qq}^{8,3} +0.087c_{dt}^1 -0.087c_{qt}^8 -0.058c_{\varphi D} +0.056c_{qt}^1 -0.041c_{tt}^1 +0.030c_{\varphi W} +0.027c_{\varphi WB} -0.024c_{Qt}^8 +0.022c_{tZ} +0.021c_{WWW}$
$-0.021c_{t\varphi} -0.020c_{QQ}^1 +0.020c_{dt}^8$

PC20 (2.47e-01): $+0.576c_{t\varphi} +0.428c_{qq}^{1,1} +0.403c_{\varphi\square} -0.347c_{qq}^{8,3} +0.271c_{ut}^1 -0.172c_{tt}^1 -0.123c_{qu}^1 +0.123c_{dt}^1 -0.101c_{qq}^{1,8} -0.098c_{Qt}^8$
$-0.093c_{qu}^8 -0.085c_{QQ}^1 +0.078c_{\varphi D} +0.073c_{\varphi t} -0.073c_{ut}^8 -0.056c_{qt}^8 +0.055c_{dt}^8 -0.049c_{\varphi Q}^{(-)} -0.049c_{\varphi W} +0.036c_{\varphi Q}^3 -0.036c_{\varphi WB}$
$-0.029c_{QQ}^8 +0.028c_{qd}^8 -0.025c_{qd}^1 +0.015c_{tG} -0.014c_{tZ}$

PC21 (1.74e-01): $-0.652c_{qq}^{8,3} -0.539c_{t\varphi} +0.256c_{ut}^8 -0.192c_{\varphi\square} +0.166c_{ut}^1 -0.159c_{qt}^8 +0.149c_{\varphi t} +0.142c_{qq}^{1,1} -0.122c_{qq}^{1,8} -0.120c_{qu}^1$
$+0.112c_{dt}^8 +0.093c_{qd}^8 -0.088c_{tt}^1 +0.070c_{\varphi Q}^{(-)} +0.069c_{\varphi Q}^3 +0.062c_{qd}^1 +0.054c_{qt}^1 -0.051c_{Qt}^8 +0.046c_{dt}^1 +0.044c_{qu}^8 -0.043c_{\varphi D}$
$-0.043c_{QQ}^1 +0.026c_{\varphi W} -0.022c_{tZ} +0.020c_{\varphi WB} -0.016c_{QQ}^8$

PC22 (8.42e-02): $-0.432c_{tt}^1 -0.376c_{qu}^8 -0.354c_{qu}^1 -0.346c_{ut}^8 -0.336c_{t\varphi} +0.274c_{qq}^{8,3} -0.244c_{Qt}^8 -0.212c_{QQ}^1 -0.194c_{\varphi Q}^{(-)} +0.162c_{qq}^{1,1}$
$+0.129c_{dt}^1 -0.114c_{qd}^8 -0.083c_{qd}^1 -0.083c_{\varphi\square} +0.080c_{ut}^1 -0.072c_{dt}^8 -0.072c_{QQ}^8 +0.065c_{qt}^8 +0.048c_{tZ} -0.033c_{\varphi t} -0.033c_{\varphi Q}^3$
$+0.029c_{qq}^{1,8} +0.014c_{qt}^1 +0.014c_{tG}$

PC23 (7.41e-02): $+0.611c_{tt}^1 +0.345c_{Qt}^8 +0.300c_{QQ}^1 -0.287c_{qu}^1 +0.279c_{qq}^{1,1} -0.229c_{ut}^8 -0.219c_{qu}^8 -0.174c_{tZ} -0.172c_{\varphi Q}^{(-)} -0.150c_{t\varphi}$
$+0.138c_{ut}^1 -0.134c_{\varphi t} +0.105c_{qt}^1 +0.101c_{QQ}^8 +0.088c_{dt}^1 -0.077c_{qd}^1 -0.029c_{qq}^{1,8} -0.028c_{qd}^8 +0.026c_{dt}^8 +0.019c_{qt}^8 +0.015c_{\varphi\square}$

PC24 (4.57e-02): $+0.508c_{dt}^8 +0.501c_{qu}^1 -0.456c_{qt}^1 -0.264c_{qu}^8 -0.258c_{qd}^1 +0.176c_{qq}^{1,1} -0.169c_{ut}^8 -0.159c_{qd}^8 -0.148c_{dt}^1 -0.113c_{t\varphi}$
$-0.082c_{ut}^1 -0.068c_{tZ} -0.064c_{qq}^{1,8} -0.061c_{qq}^{8,3} +0.060c_{qt}^8 +0.057c_{\varphi t} -0.025c_{\varphi Q}^{(-)} -0.010c_{\varphi\square}$

PC25 (3.12e-02): $+0.847c_{tZ} +0.307c_{\varphi t} -0.199c_{ut}^1 +0.172c_{qq}^{1,1} -0.147c_{qd}^1 +0.145c_{qt}^1 +0.124c_{tt}^1 -0.107c_{qu}^1 -0.107c_{dt}^1 +0.092c_{dt}^8$
$+0.078c_{\varphi Q}^{(-)} -0.078c_{ut}^8 -0.073c_{qd}^8 +0.065c_{Qt}^8 +0.061c_{QQ}^1 +0.038c_{qu}^8 +0.037c_{\varphi B} +0.025c_{\varphi D} +0.015c_{QQ}^8 +0.012c_{qq}^{1,8} -0.012c_{t\varphi}$
$-0.011c_{\varphi WB} +0.011c_{\varphi\square}$

PC26 (2.63e-02): $-0.509c_{\varphi t} +0.423c_{tZ} -0.395c_{\varphi Q}^{(-)} +0.372c_{qd}^1 -0.322c_{qt}^1 -0.191c_{dt}^8 +0.182c_{ut}^1 +0.170c_{qu}^1 +0.132c_{ut}^8 +0.118c_{qd}^8 -0.105c_{qu}^8 -0.093c_{dt}^1 -0.077c_{qq}^{8,3} +0.058c_{qq}^{1,1} -0.042c_{t\varphi} -0.040c_{qq}^{1,8} +0.025c_{tt}^1 +0.017c_{\varphi B} +0.017c_{\varphi D} +0.014c_{\varphi Q}^3 +0.012c_{QQ}^1 +0.012c_{Qt}^8$

PC27 (2.50e-02): $-0.545c_{ut}^1 +0.538c_{qq}^{1,1} +0.376c_{qd}^1 -0.318c_{dt}^1 -0.268c_{dt}^8 -0.215c_{tZ} -0.141c_{qt}^1 +0.123c_{\varphi t} +0.078c_{\varphi Q}^{(-)} -0.066c_{qu}^1 +0.050c_{ut}^8 -0.043c_{qd}^8 +0.034c_{qq}^{8,3} -0.033c_{t\varphi} +0.030c_{qq}^{1,8} -0.019c_{qt}^8 -0.017c_{tt}^1$

PC28 (1.44e-02): $+0.501c_{\varphi t} -0.462c_{dt}^8 -0.387c_{qt}^1 +0.350c_{ut}^1 +0.317c_{dt}^1 +0.206c_{\varphi Q}^{(-)} +0.190c_{qu}^1 -0.129c_{qd}^8 +0.123c_{qd}^1 +0.123c_{tt}^1 +0.114c_{qq}^{8,3} -0.092c_{qu}^8 -0.082c_{t\varphi} +0.060c_{QQ}^1 +0.051c_{Qt}^8 +0.046c_{tZ} +0.019c_{qq}^{1,8} -0.018c_{\varphi Q}^3 +0.017c_{\varphi \Box} +0.014c_{qt}^8 -0.010c_{ut}^8$

PC29 (1.09e-02): $+0.601c_{dt}^1 -0.408c_{qd}^8 -0.355c_{ut}^1 +0.317c_{qu}^8 -0.245c_{\varphi t} -0.229c_{qd}^1 -0.171c_{\varphi Q}^{(-)} -0.149c_{dt}^8 -0.147c_{qq}^{8,3} +0.133c_{qq}^{1,1} -0.131c_{qt}^8 +0.115c_{qu}^1 +0.072c_{qq}^{1,8} -0.058c_{qt}^1 -0.036c_{t\varphi} -0.024c_{tt}^1 +0.024c_{tZ} +0.017c_{\varphi Q}^3 +0.016c_{QQ}^8 -0.012c_{QQ}^1 +0.011c_{ut}^8$

PC30 (6.11e-03): $-0.569c_{dt}^1 -0.441c_{qd}^1 -0.365c_{qd}^8 -0.343c_{dt}^8 +0.330c_{ut}^1 +0.268c_{qu}^8 +0.100c_{qq}^{1,1} -0.099c_{qt}^8 +0.083c_{qq}^{1,8} -0.078c_{\varphi t} -0.078c_{\varphi Q}^{(-)} -0.054c_{tZ} -0.052c_{tt}^1 -0.051c_{t\varphi} +0.040c_{QQ}^8 -0.030c_{qq}^{8,3} -0.025c_{QQ}^1 +0.021c_{ut}^8 +0.020c_{Qt}^8 +0.012c_{qu}^1$

PC31 (5.73e-03): $-0.538c_{qd}^1 +0.510c_{qd}^8 -0.382c_{dt}^8 -0.347c_{qu}^8 +0.268c_{ut}^8 -0.202c_{ut}^1 +0.188c_{qu}^1 +0.098c_{qq}^{1,1} +0.087c_{qt}^1 -0.084c_{qq}^{1,8} +0.077c_{qt}^8 +0.059c_{dt}^1 -0.029c_{\varphi t} +0.026c_{QQ}^8 -0.022c_{qq}^{8,3} -0.021c_{\varphi Q}^{(-)} +0.020c_{Qt}^8 -0.019c_{tt}^1$

PC32 (9.18e-04): $-0.701c_{QQ}^8 -0.582c_{Qt}^8 +0.354c_{tt}^1 +0.164c_{QQ}^1 -0.110c_{Qt}^1 -0.056c_{qd}^1 -0.033c_{dt}^8 -0.026c_{\varphi t} -0.025c_{dt}^1 +0.015c_{qu}^8 -0.014c_{\varphi Q}^{(-)} +0.013c_{ut}^8 +0.013c_{qt}^1 +0.012c_{qq}^{1,1} -0.011c_{tZ} -0.011c_{qd}^8$

PC33 (3.46e-11): $-0.744c_{Qt}^1 +0.547c_{QQ}^1 +0.264c_{QQ}^8 -0.228c_{tt}^1 -0.161c_{Qt}^8$

PC34 (3.46e-11): $-0.720c_{QQ}^1 -0.568c_{Qt}^1 +0.360c_{tt}^1 +0.158c_{QQ}^8 -0.066c_{Qt}^8$

PC35 (3.46e-11): $-0.657c_{Qt}^8 +0.629c_{QQ}^8 +0.333c_{Qt}^1 +0.242c_{tt}^1 +0.057c_{QQ}^1$
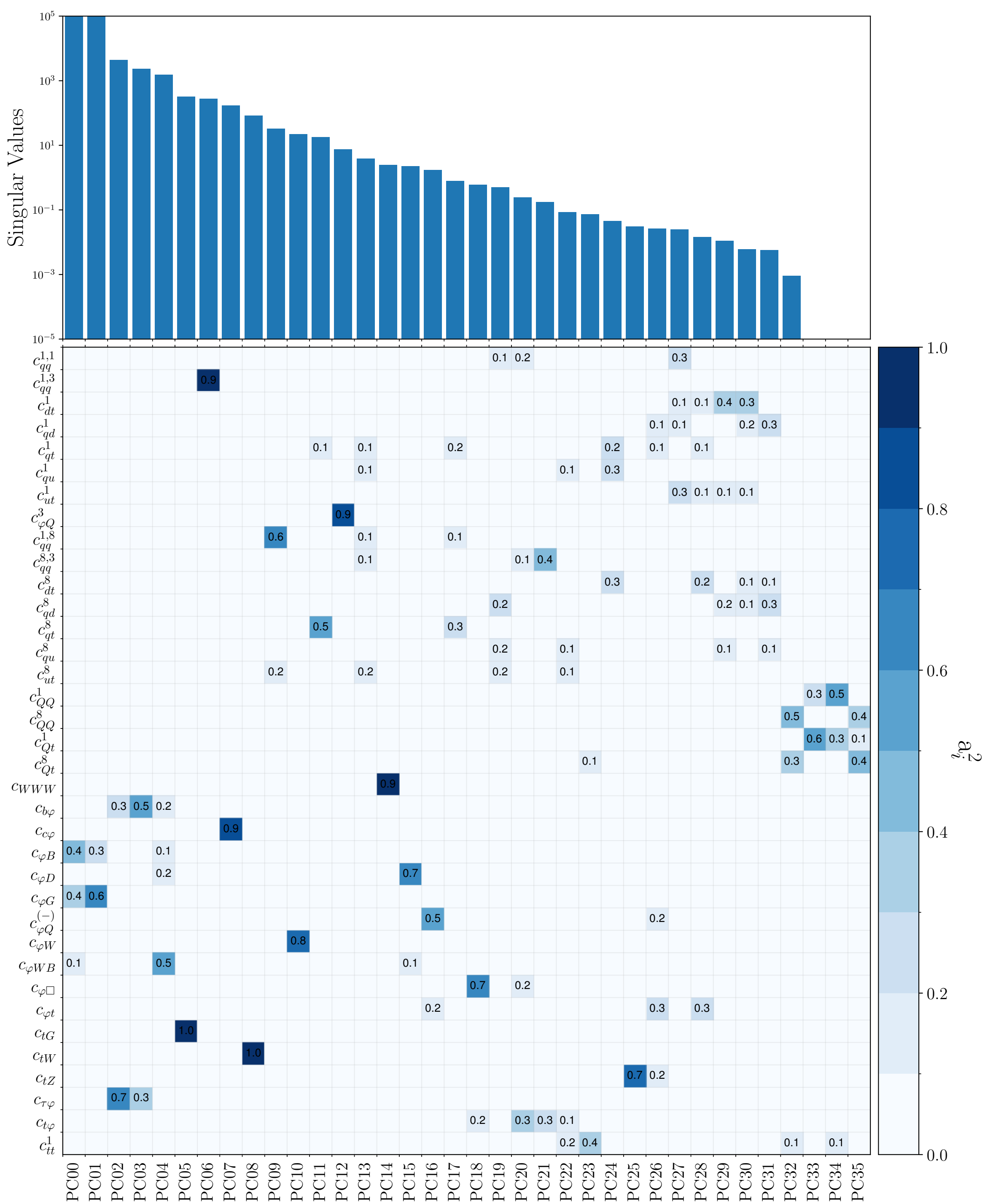
Principal Components Analysis: NS LO quadratic

PC00 (5.90e+05): $+0.699c_{\varphi G}\ -0.597c_{\varphi B}\ +0.334c_{\varphi WB}\ -0.182c_{\varphi W}\ +0.085c_{b\varphi}\ -0.036c_{tW}\ +0.032c_{tZ}\ +0.028c_{c\varphi}\ +0.026c_{tG}$ $+0.012c_{\tau\varphi}$

PC01 (2.07e+05): $+0.709c_{\varphi G}\ +0.594c_{\varphi B}\ -0.327c_{\varphi WB}\ +0.181c_{\varphi W}\ +0.036c_{tW}\ +0.033c_{b\varphi}\ -0.032c_{tZ}\ +0.029c_{tG}\ +0.011c_{c\varphi}$

PC02 (4.25e+03): $+0.879c_{\tau\varphi}\ -0.360c_{b\varphi}\ -0.233c_{\varphi WB}\ -0.136c_{\varphi D}\ -0.127c_{\varphi B}\ -0.087c_{c\varphi}\ +0.030c_{\varphi G}\ -0.017c_{\varphi W}\ +0.013c_{tG}$

PC03 (2.78e+03): $-0.747c_{\varphi WB}\ -0.433c_{\varphi D}\ -0.397c_{\varphi B}\ -0.290c_{\tau\varphi}\ +0.071c_{c\varphi}\ +0.065c_{b\varphi}\ -0.050c_{\varphi W}\ -0.023c_{tW}\ +0.021c_{tZ}$

PC04 (1.88e+03): $-0.871c_{b\varphi}\ -0.378c_{\tau\varphi}\ -0.290c_{c\varphi}\ +0.079c_{\varphi G}\ +0.072c_{tG}\ +0.051c_{\varphi WB}\ -0.016c_{\varphi B}\ -0.013c_{\varphi W}$

PC05 (2.86e+02): $-0.989c_{tG}\ -0.067c_{qq}^{1,8}\ -0.064c_{qt}^{8}\ -0.058c_{b\varphi}\ +0.045c_{\varphi G}\ -0.042c_{c\varphi}\ -0.035c_{qu}^{8}\ -0.034c_{ut}^{8}\ -0.023c_{qd}^{8}\ -0.022c_{dt}^{8}$ $-0.021c_{qq}^{1,3}\ +0.020c_{tW}\ -0.017c_{\varphi\square}\ +0.016c_{t\varphi}\ -0.015c_{\tau\varphi}\ +0.013c_{\varphi Q}^{(-)}$

PC06 (2.18e+02): $-0.950c_{qq}^{1,3}\ +0.300c_{\varphi Q}^{3}\ +0.082c_{tW}\ +0.023c_{tG}\ +0.014c_{c\varphi}$

PC07 (1.02e+02): $-0.868c_{c\varphi}\ -0.372c_{\varphi W}\ +0.286c_{b\varphi}\ +0.100c_{tW}\ +0.072c_{\varphi B}\ -0.070c_{\varphi\square}\ -0.065c_{\varphi WB}\ -0.026c_{\varphi D}\ +0.021c_{tG}$ $+0.013c_{\tau\varphi}\ +0.013c_{t\varphi}$

PC08 (8.28e+01): $-0.989c_{tW}\ -0.088c_{c\varphi}\ -0.084c_{qq}^{1,3}\ +0.060c_{\varphi B}\ +0.026c_{b\varphi}\ -0.024c_{\varphi W}\ -0.019c_{tG}\ +0.017c_{qq}^{1,8}\ +0.012c_{\varphi Q}^{3}$ $-0.011c_{\varphi WB}\ +0.011c_{ut}^{8}$

PC09 (5.20e+01): $+0.568c_{qt}^{8}\ -0.514c_{qq}^{1,8}\ +0.405c_{qu}^{8}\ -0.372c_{ut}^{8}\ -0.247c_{qq}^{8,3}\ +0.163c_{qd}^{8}\ -0.147c_{dt}^{8}$

PC10 (2.29e+01): $-0.570c_{\varphi W}\ +0.455c_{qq}^{1,8}\ +0.395c_{qt}^{8}\ +0.265c_{ut}^{8}\ +0.244c_{c\varphi}\ +0.233c_{qu}^{8}\ +0.200c_{\varphi B}\ -0.171c_{\varphi D}\ +0.140c_{dt}^{8}$ $+0.126c_{qd}^{8}\ -0.090c_{tG}\ -0.080c_{b\varphi}\ -0.060c_{qq}^{8,3}\ +0.049c_{\varphi WB}\ -0.038c_{\varphi Q}^{(-)}\ +0.024c_{\varphi t}\ -0.018c_{\varphi Q}^{3}\ +0.018c_{tW}\ -0.012c_{t\varphi}$

PC11 (2.14e+01): $-0.615c_{\varphi W}\ -0.427c_{qq}^{1,8}\ -0.366c_{qt}^{8}\ +0.252c_{c\varphi}\ -0.246c_{ut}^{8}\ +0.219c_{\varphi B}\ -0.213c_{qu}^{8}\ -0.197c_{\varphi D}\ -0.129c_{dt}^{8}$ $-0.115c_{qd}^{8}\ -0.071c_{b\varphi}\ +0.064c_{qq}^{8,3}\ +0.063c_{tG}\ +0.056c_{\varphi WB}\ +0.038c_{\varphi Q}^{(-)}\ -0.026c_{\varphi t}\ -0.021c_{t\varphi}\ +0.016c_{\varphi Q}^{3}\ -0.014c_{tW}\ +0.013c_{\varphi\square}$

PC12 (4.19e+00): $+0.950c_{\varphi Q}^{3}\ +0.299c_{qq}^{1,3}\ +0.064c_{\varphi D}\ -0.028c_{\varphi WB}\ -0.024c_{\varphi W}\ +0.024c_{qq}^{1,8}\ -0.018c_{qq}^{8,3}\ -0.016c_{\varphi\square}\ +0.014c_{qt}^{8}$ $+0.014c_{\varphi t}\ -0.013c_{tW}\ -0.011c_{\varphi Q}^{(-)}$

PC13 (2.76e+00): $+0.836c_{\varphi D}\ -0.390c_{\varphi WB}\ -0.286c_{\varphi W}\ -0.151c_{\varphi\square}\ -0.130c_{\varphi B}\ +0.112c_{c\varphi}\ -0.070c_{\varphi Q}^{3}\ +0.055c_{WWW}\ -0.047c_{b\varphi}$ $+0.044c_{\varphi Q}^{(-)}\ -0.028c_{t\varphi}\ +0.027c_{qq}^{8,3}\ -0.022c_{qq}^{1,3}\ -0.016c_{\varphi t}\ -0.016c_{tZ}\ -0.016c_{qq}^{1,8}$

PC14 (1.83e+00): $+0.741c_{\varphi Q}^{(-)}\ -0.483c_{\varphi t}\ +0.287c_{ut}^{8}\ +0.221c_{qu}^{8}\ -0.178c_{qq}^{1,8}\ +0.156c_{qq}^{8,3}\ +0.127c_{dt}^{8}\ +0.068c_{qd}^{8}\ -0.051c_{t\varphi}\ +0.047c_{\varphi\square}$ $-0.047c_{qt}^{8}\ -0.034c_{\varphi D}\ +0.026c_{\varphi Q}^{3}\ +0.017c_{\varphi WB}\ +0.016c_{tZ}\ -0.016c_{WWW}\ -0.016c_{c\varphi}\ +0.015c_{\varphi W}\ +0.011c_{qq}^{1,3}$

PC15 (6.57e-01): $-0.835c_{\varphi\square}$ $+0.402c_{t\varphi}$ $+0.258c_{qq}^{8,3}$ $+0.131c_{qu}^{8}$ $-0.108c_{\varphi D}$ $-0.105c_{qq}^{1,8}$ $+0.088c_{qd}^{8}$ $+0.072c_{ut}^{8}$ $-0.064c_{\varphi Q}^{(-)}$ $+0.057c_{dt}^{8}$ $+0.051c_{c\varphi}$ $+0.050c_{\varphi W}$ $-0.048c_{WWW}$ $+0.048c_{\varphi WB}$ $+0.044c_{\varphi t}$ $-0.041c_{qt}^{8}$ $+0.016c_{tG}$ $+0.014c_{\varphi B}$ $+0.011c_{tt}$

PC16 (6.30e-01): $-0.679c_{qq}^{8,3}$ $-0.356c_{qu}^{8}$ $+0.318c_{\varphi Q}^{(-)}$ $-0.267c_{\varphi\square}$ $+0.236c_{qq}^{1,8}$ $+0.223c_{t\varphi}$ $-0.202c_{\varphi t}$ $-0.195c_{qd}^{8}$ $-0.181c_{ut}^{8}$ $-0.106c_{dt}^{8}$ $+0.084c_{qt}^{8}$ $+0.049c_{WWW}$ $-0.028c_{\varphi D}$ $+0.022c_{c\varphi}$ $+0.019c_{tG}$ $-0.016c_{\varphi Q}^{3}$ $+0.012c_{\varphi WB}$

PC17 (3.77e-01): $-0.729c_{WWW}$ $+0.377c_{qq}^{8,3}$ $-0.297c_{ut}^{8}$ $+0.293c_{qt}^{8}$ $-0.231c_{qu}^{8}$ $+0.181c_{qq}^{1,8}$ $-0.153c_{dt}^{8}$ $+0.139c_{\varphi Q}^{(-)}$ $-0.120c_{qd}^{8}$ $-0.073c_{\varphi t}$ $-0.045c_{t\varphi}$ $+0.025c_{\varphi D}$ $-0.012c_{\varphi WB}$ $+0.012c_{tt}^{1}$

PC18 (3.68e-01): $+0.678c_{WWW}$ $+0.472c_{qq}^{8,3}$ $+0.308c_{qt}^{8}$ $-0.291c_{ut}^{8}$ $-0.208c_{qu}^{8}$ $+0.168c_{qq}^{1,8}$ $-0.152c_{dt}^{8}$ $+0.124c_{\varphi Q}^{(-)}$ $-0.112c_{qd}^{8}$ $-0.087c_{\varphi t}$ $-0.061c_{t\varphi}$ $-0.047c_{\varphi D}$ $-0.044c_{\varphi\square}$ $+0.023c_{\varphi WB}$ $+0.023c_{\varphi W}$

PC19 (1.94e-01): $-0.882c_{t\varphi}$ $-0.444c_{\varphi\square}$ $-0.116c_{qq}^{8,3}$ $-0.073c_{\varphi D}$ $+0.049c_{\varphi W}$ $-0.037c_{tZ}$ $+0.033c_{\varphi WB}$ $-0.026c_{qt}^{8}$ $-0.020c_{WWW}$ $-0.015c_{\varphi Q}^{(-)}$ $+0.014c_{ut}^{8}$ $-0.012c_{qu}^{8}$ $-0.011c_{qd}^{8}$

PC20 (6.12e-02): $-0.737c_{tt}^{1}$ $-0.423c_{Qt}^{8}$ $-0.362c_{QQ}^{1}$ $+0.216c_{qq}^{1,1}$ $+0.177c_{qt}^{1}$ $+0.143c_{ut}^{1}$ $-0.129c_{QQ}^{8}$ $+0.112c_{qu}^{1}$ $+0.072c_{dt}^{1}$ $+0.063c_{qd}^{1}$ $+0.059c_{qd}^{8}$ $+0.048c_{dt}^{8}$ $+0.036c_{\varphi t}$ $-0.036c_{ut}^{8}$ $+0.034c_{\varphi Q}^{(-)}$ $-0.025c_{qu}^{8}$ $+0.018c_{tZ}$ $-0.013c_{\varphi\square}$ $+0.012c_{qq}^{8,3}$

PC21 (2.60e-02): $-0.571c_{qd}^{8}$ $-0.536c_{dt}^{8}$ $+0.380c_{qu}^{8}$ $+0.362c_{\varphi t}$ $+0.198c_{\varphi Q}^{(-)}$ $+0.197c_{ut}^{8}$ $+0.150c_{tZ}$ $+0.062c_{qq}^{1,8}$ $-0.058c_{qt}^{8}$ $-0.044c_{tt}^{1}$ $-0.022c_{QQ}^{1}$ $+0.018c_{qt}^{1}$ $-0.018c_{\varphi\square}$ $-0.015c_{Qt}^{8}$ $+0.012c_{qu}^{1}$

PC22 (2.35e-02): $-0.674c_{\varphi t}$ $-0.479c_{\varphi Q}^{(-)}$ $-0.354c_{qd}^{8}$ $-0.271c_{tZ}$ $+0.216c_{ut}^{8}$ $-0.211c_{dt}^{8}$ $+0.082c_{qt}^{8}$ $-0.072c_{tt}^{1}$ $-0.070c_{qq}^{1,8}$ $+0.066c_{qu}^{8}$ $-0.035c_{QQ}^{1}$ $+0.030c_{qt}^{1}$ $-0.024c_{Qt}^{8}$ $+0.024c_{t\varphi}$ $+0.019c_{qu}^{1}$ $-0.015c_{\varphi B}$ $-0.014c_{WWW}$ $+0.011c_{qd}^{1}$

PC23 (7.57e-03): $+0.566c_{ut}^{8}$ $-0.533c_{qu}^{8}$ $+0.413c_{qt}^{8}$ $-0.404c_{qq}^{1,8}$ $+0.232c_{\varphi t}$ $-0.083c_{qd}^{8}$ $+0.036c_{tZ}$ $+0.025c_{\varphi Q}^{(-)}$

PC24 (3.54e-03): $-0.482c_{QQ}^{8}$ $-0.462c_{qt}^{1}$ $-0.401c_{Qt}^{8}$ $+0.344c_{qq}^{1,1}$ $-0.296c_{qu}^{1}$ $+0.239c_{tt}^{1}$ $+0.213c_{ut}^{1}$ $-0.173c_{qd}^{1}$ $+0.129c_{dt}^{1}$ $+0.111c_{QQ}^{1}$ $-0.104c_{qd}^{8}$ $+0.080c_{dt}^{8}$ $-0.075c_{Qt}^{1}$ $+0.038c_{tZ}$ $+0.025c_{qu}^{8}$ $-0.019c_{\varphi Q}^{(-)}$ $-0.017c_{\varphi t}$ $-0.013c_{ut}^{8}$ $+0.013c_{qt}^{8}$ $-0.013c_{qq}^{1,8}$

PC25 (2.61e-03): $-0.707c_{dt}^{8}$ $+0.615c_{qd}^{8}$ $+0.177c_{tZ}$ $+0.168c_{ut}^{8}$ $-0.130c_{\varphi t}$ $-0.110c_{qu}^{8}$ $-0.095c_{qt}^{8}$ $+0.090c_{qq}^{1,8}$ $-0.059c_{QQ}^{8}$ $-0.055c_{qt}^{1}$ $-0.050c_{Qt}^{8}$ $+0.042c_{qq}^{1,1}$ $-0.037c_{\varphi Q}^{(-)}$ $-0.035c_{qu}^{1}$ $+0.026c_{tt}^{1}$ $+0.026c_{ut}^{1}$ $-0.021c_{qd}^{1}$ $+0.016c_{dt}^{1}$ $+0.012c_{QQ}^{1}$ $-0.011c_{qq}^{8,3}$

PC26 (2.10e-03): $-0.930c_{tZ}$ $+0.229c_{\varphi t}$ $+0.182c_{\varphi Q}^{(-)}$ $-0.155c_{dt}^{8}$ $+0.121c_{qd}^{8}$ $-0.041c_{\varphi B}$ $-0.034c_{QQ}^{8}$ $-0.033c_{qt}^{8}$ $-0.032c_{qt}^{1}$ $+0.030c_{qq}^{1,8}$ $+0.030c_{t\varphi}$ $-0.029c_{Qt}^{8}$ $+0.025c_{qq}^{1,1}$ $-0.024c_{\varphi D}$ $+0.022c_{ut}^{8}$ $-0.020c_{qu}^{1}$ $+0.016c_{\varphi\square}$ $+0.015c_{ut}^{1}$ $+0.014c_{tt}^{1}$ $-0.012c_{qd}^{1}$ $-0.011c_{\varphi W}$ $+0.011c_{\varphi WB}$

PC27 (1.06e-10): $+0.912c_{qq}^{1,1}$ $+0.255c_{Qt}^{8}$ $+0.215c_{QQ}^{8}$ $+0.135c_{qt}^{1}$ $-0.116c_{ut}^{1}$ $+0.087c_{qu}^{1}$ $+0.084c_{tt}^{1}$ $-0.067c_{dt}^{1}$ $+0.051c_{qd}^{1}$ $+0.044c_{QQ}^{1}$ $+0.028c_{Qt}^{1}$

PC28 (5.27e-11): $+0.986c_{dt}^{1}$ $+0.107c_{Qt}^{8}$ $+0.097c_{QQ}^{8}$ $-0.049c_{ut}^{1}$ $+0.040c_{qu}^{1}$ $+0.033c_{qt}^{1}$ $+0.031c_{qd}^{1}$ $+0.020c_{tt}^{1}$ $+0.013c_{Qt}^{1}$ $+0.011c_{QQ}^{1}$

PC29 (5.27e-11): $-0.843c_{qt}^{1}$ $-0.297c_{tt}^{1}$ $+0.297c_{QQ}^{8}$ $+0.189c_{Qt}^{8}$ $+0.184c_{qu}^{1}$ $-0.143c_{QQ}^{1}$ $-0.136c_{ut}^{1}$ $+0.052c_{Qt}^{1}$ $-0.040c_{qd}^{1}$ $-0.028c_{dt}^{1}$

PC30 (5.27e-11): $-0.969c_{qd}^1$ $+0.193c_{qu}^1$ $+0.132c_{qt}^1$ $+0.050c_{QQ}^8$ $-0.040c_{tt}^1$ $+0.037c_{Qt}^8$ $-0.022c_{QQ}^1$ $+0.010c_{dt}^1$

PC31 (5.27e-11): $+0.892c_{qu}^1$ $-0.282c_{QQ}^8$ $+0.235c_{tt}^1$ $-0.187c_{Qt}^8$ $+0.137c_{qd}^1$ $+0.094c_{QQ}^1$ $-0.063c_{ut}^1$ $-0.044c_{qt}^1$ $-0.040c_{Qt}^1$

PC32 (5.27e-11): $+0.923c_{ut}^1$ $+0.273c_{Qt}^8$ $-0.159c_{QQ}^1$ $+0.141c_{qu}^1$ $+0.107c_{QQ}^8$ $+0.100c_{tt}^1$ $+0.059c_{Qt}^1$ $+0.043c_{qd}^1$ $-0.026c_{qt}^1$

PC33 (5.27e-11): $+0.799c_{QQ}^1$ $+0.383c_{QQ}^8$ $-0.281c_{Qt}^8$ $-0.253c_{tt}^1$ $+0.206c_{ut}^1$ $-0.166c_{Qt}^1$ $+0.050c_{qu}^1$

PC34 (5.27e-11): $-0.847c_{Qt}^1$ $-0.326c_{QQ}^1$ $+0.313c_{QQ}^8$ $+0.206c_{tt}^1$ $-0.188c_{Qt}^8$

PC35 (5.27e-11): $-0.564c_{Qt}^8$ $+0.515c_{QQ}^8$ $+0.490c_{Qt}^1$ $+0.351c_{tt}^1$ $-0.232c_{QQ}^1$
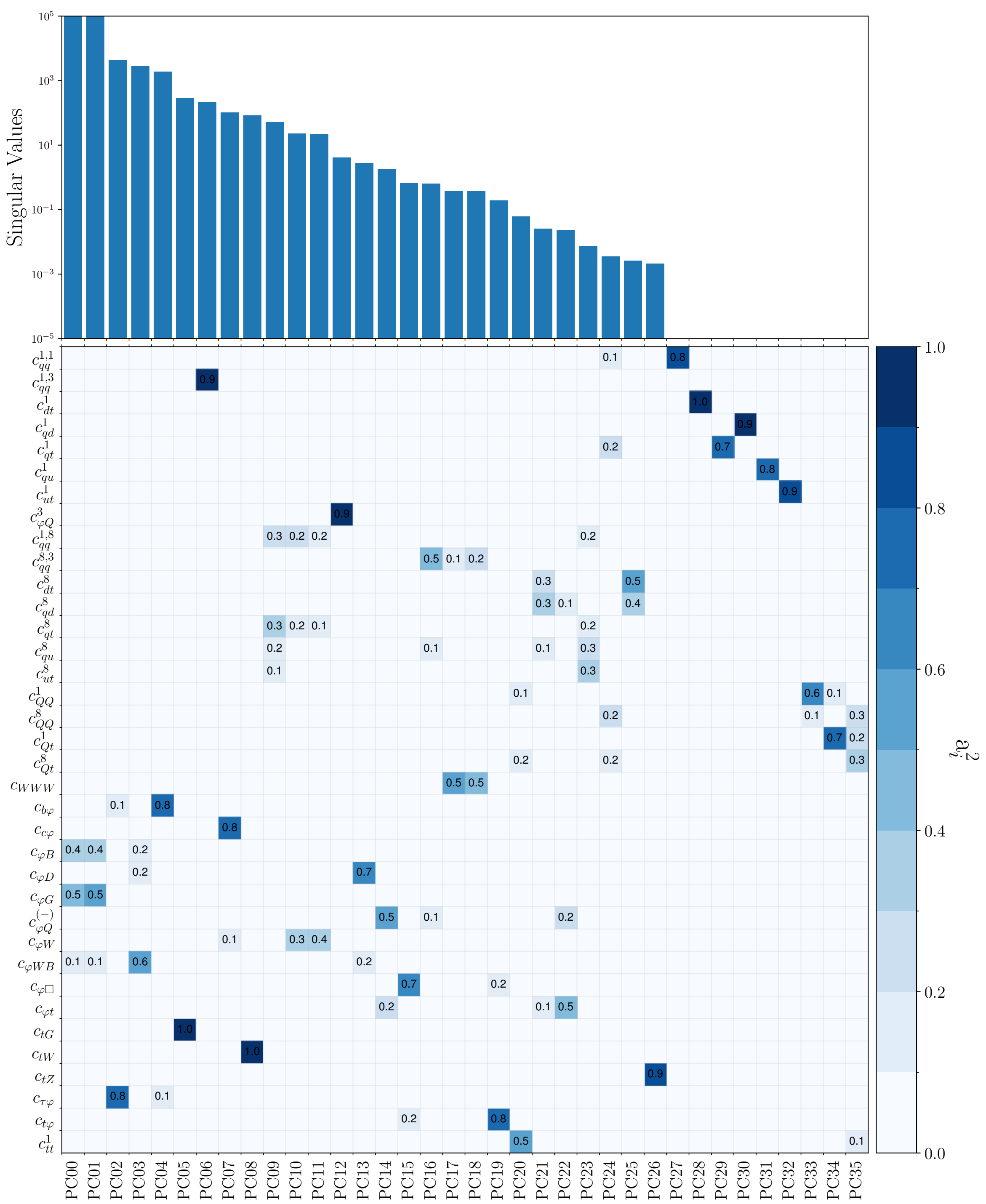
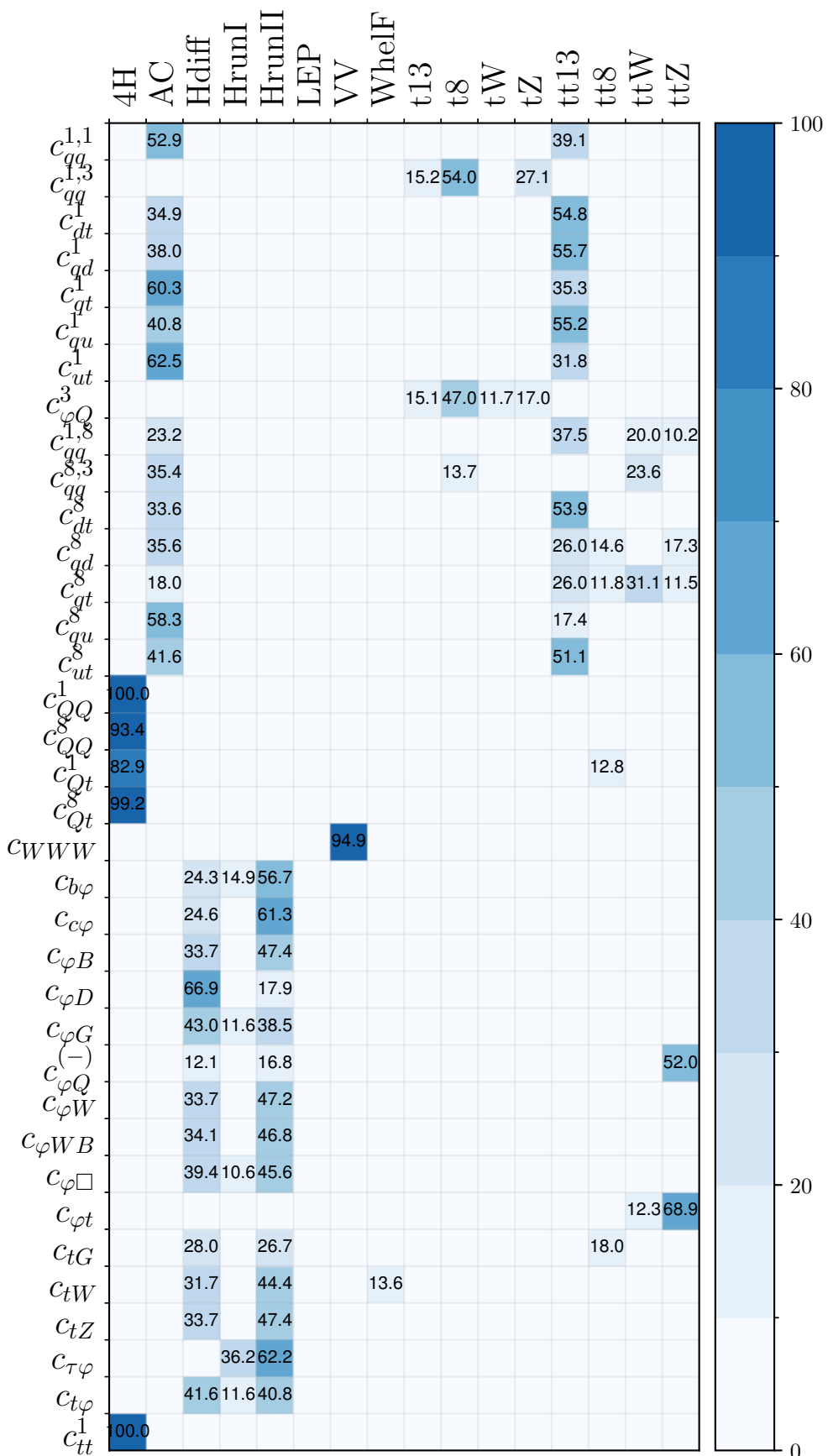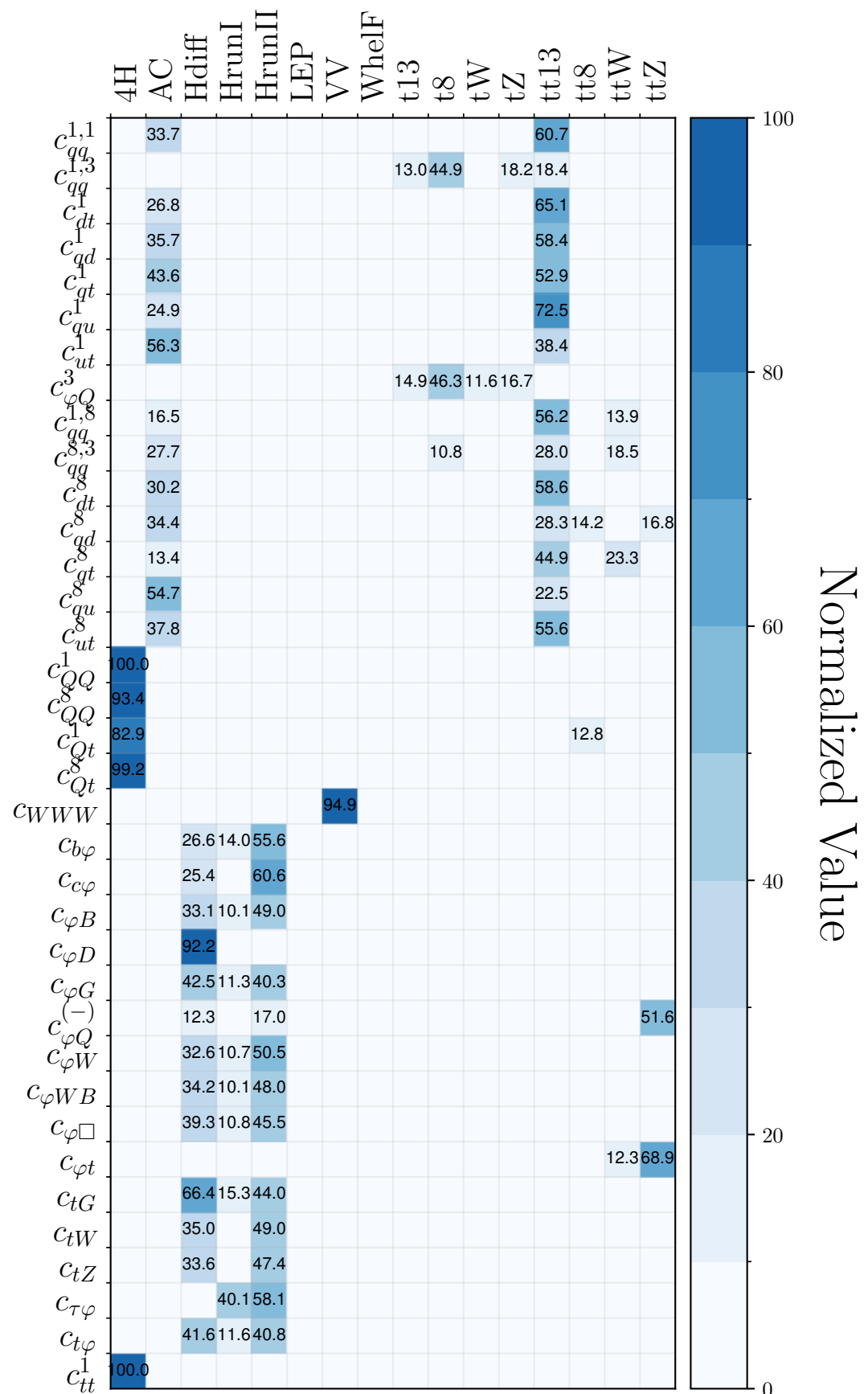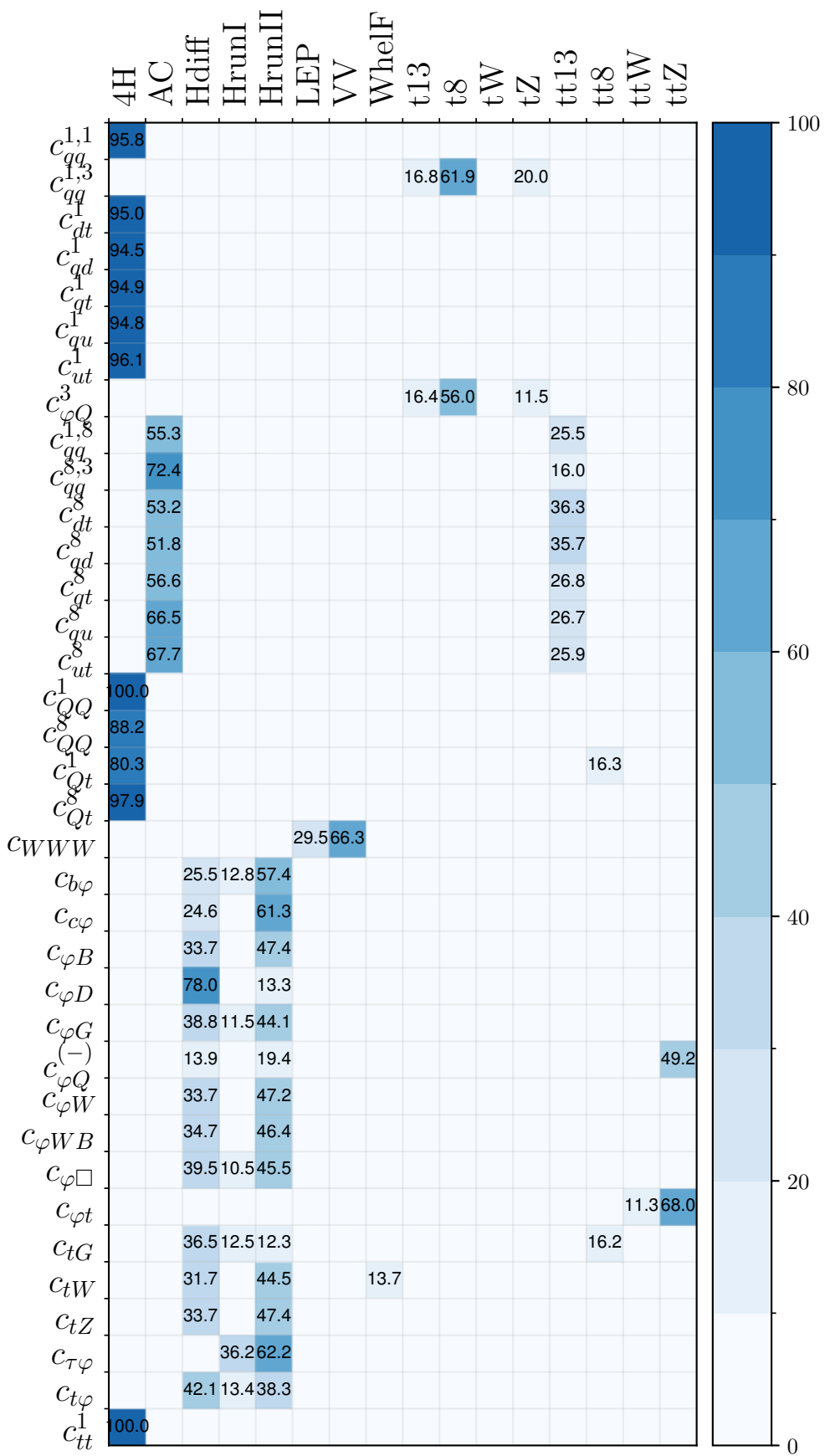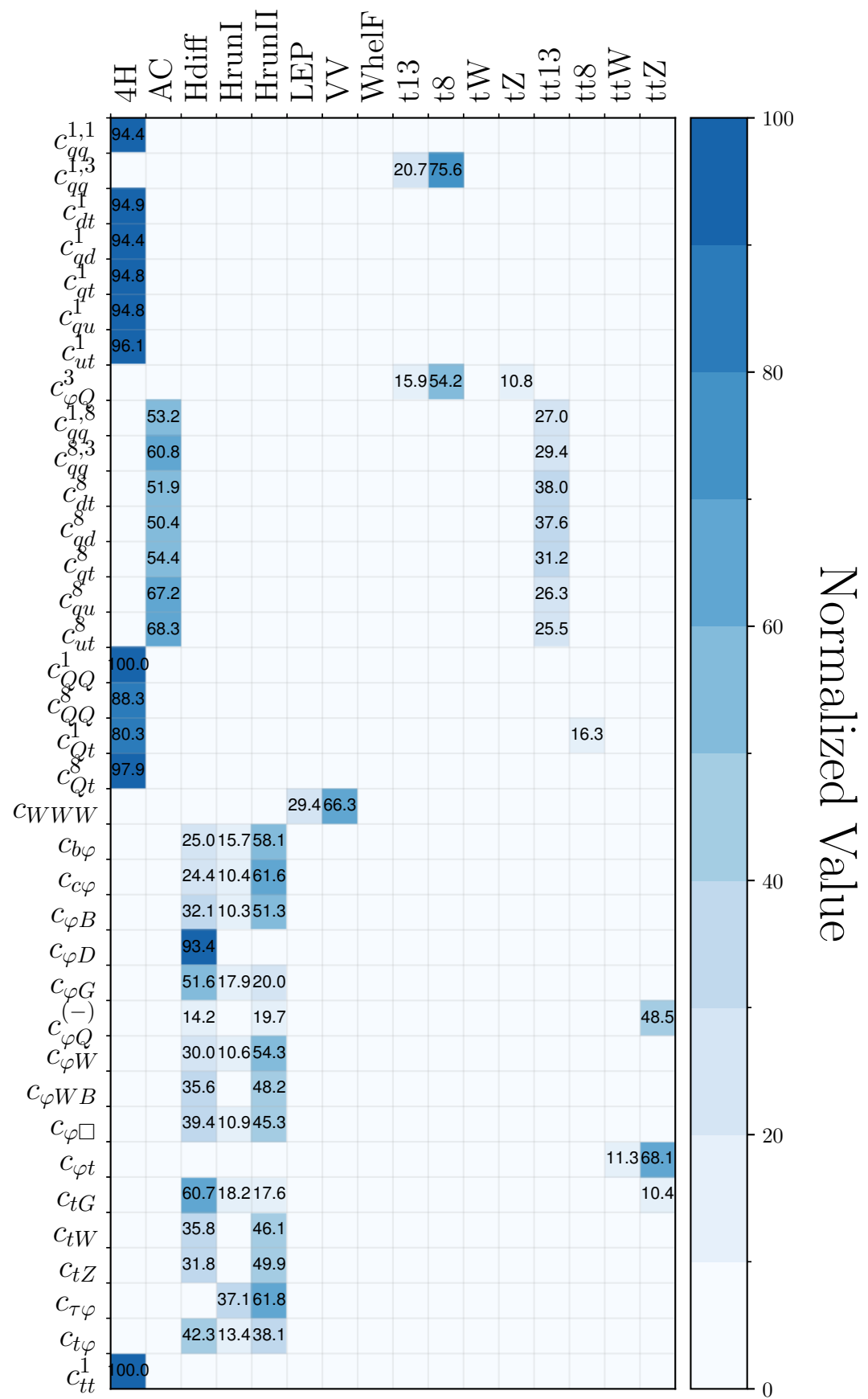|		Processes												
Class	Coefficient	4H	AC	Hdiff	HrunI	HrunII	LEP	VV	WhelF	t13	t8	tW	tZ	tt13
2FB	$c_{\varphi Q}^3$	0.00(0.00)	0.00(0.00)	5.52(5.99)	0.51(0.63)	2.64(3.37)	0.00(0.00)	0.00(0.00)	0.51(0.51)	15.14(14.91)	47.03(46.31)	11.69(11.61)	16.96(16.67)	0.00(0.00)
	$c_{b\varphi}$	0.00(0.00)	0.00(0.00)	24.25(26.56)	14.89(13.96)	56.68(55.60)	0.00(0.00)	0.00(0.00)	4.17(3.88)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{c\varphi}$	0.00(0.00)	0.00(0.00)	24.56(25.36)	9.97(9.78)	61.28(60.65)	0.00(0.00)	0.00(0.00)	4.19(4.22)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi Q}^{(-)}$	0.00(0.00)	0.00(0.00)	12.11(12.25)	3.27(3.31)	16.80(17.04)	0.00(0.00)	0.00(0.00)	3.26(3.25)	0.00(0.00)	0.00(0.00)	0.51(0.51)	2.41(2.43)	0.00(0.00)
	$c_{\varphi t}$	0.00(0.00)	0.00(0.00)	6.17(6.18)	1.70(1.71)	8.57(8.58)	0.00(0.00)	0.00(0.00)	1.66(1.66)	0.00(0.00)	0.00(0.00)	0.12(0.12)	0.58(0.58)	0.00(0.00)
	c_{tG}	1.99(4.80)	0.91(3.42)	27.98(66.35)	7.54(15.30)	26.65(44.05)	0.00(0.00)	0.00(-0.00)	2.42(6.25)	0.00(0.00)	1.03(-1.00)	0.05(-0.07)	0.00(0.00)	8.06(-20.94)
	c_{tW}	0.00(0.00)	0.00(0.00)	31.67(34.97)	9.07(9.85)	44.44(48.95)	0.00(0.00)	0.72(-0.40)	13.55(7.03)	0.03(-0.01)	0.26(-0.17)	0.12(-0.09)	0.14(-0.13)	0.00(0.00)
	c_{tZ}	0.00(0.00)	0.00(0.00)	33.70(33.63)	9.66(9.75)	47.36(47.39)	0.00(0.00)	0.00(0.00)	9.27(9.23)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\tau\varphi}$	0.00(0.00)	0.00(0.00)	1.30(1.53)	36.25(40.10)	62.23(58.13)	0.00(0.00)	0.00(0.00)	0.22(0.24)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{t\varphi}$	2.29(2.29)	1.58(1.58)	41.59(41.59)	11.58(11.59)	40.84(40.84)	0.00(0.00)	0.00(0.00)	2.13(2.13)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
2Q2q	$c_{qq}^{1,1}$	0.56(0.35)	52.88(33.70)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.18(0.11)	0.00(0.00)	0.00(0.00)	39.11(60.70)
	$c_{qq}^{1,3}$	0.00(0.02)	0.04(1.43)	0.00(0.00)	0.00(0.00)	0.00(0.01)	0.00(0.00)	0.00(0.00)	0.00(0.00)	15.18(12.96)	54.00(44.93)	3.66(2.41)	27.08(18.19)	0.02(18.37)
	c_{dt}^1	0.47(0.36)	34.88(26.78)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.77(0.59)	0.00(0.00)	0.00(0.00)	54.78(65.08)
	c_{qd}^1	0.25(0.23)	38.02(35.66)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.23)	0.02(0.01)	0.00(0.00)	0.00(0.00)	55.66(58.37)
	c_{qt}^1	0.28(0.21)	60.31(43.65)	0.00(0.00)	0.01(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.28(0.00)	0.01(0.01)	0.00(0.00)	0.00(0.00)	35.27(52.92)
	c_{qu}^1	0.15(0.09)	40.78(24.86)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.01(0.01)	0.00(0.00)	0.00(0.00)	55.15(72.50)
	c_{ut}^1	0.56(0.50)	62.49(56.26)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.07(0.07)	0.00(0.00)	0.00(2.00)	31.81(38.41)
	$c_{qq}^{1,8}$	0.15(0.11)	23.18(16.53)	0.01(0.00)	0.07(0.05)	0.52(0.32)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.17(0.12)	0.00(0.00)	0.00(0.00)	37.52(56.19)
	$c_{qq}^{8,3}$	0.16(0.13)	35.41(27.72)	0.01(0.01)	0.06(0.05)	0.33(0.25)	0.00(0.00)	0.00(0.00)	0.00(0.00)	3.37(2.65)	13.73(10.78)	0.00(0.00)	1.35(1.06)	8.18(27.97)
	c_{dt}^8	0.27(0.24)	33.56(30.18)	0.01(0.01)	0.12(0.11)	1.13(1.01)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.07(0.07)	0.00(0.00)	0.00(0.00)	53.90(58.55)
	c_{qd}^8	0.81(0.78)	35.56(34.43)	0.03(0.03)	0.26(0.25)	2.48(2.40)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.23(0.22)	0.00(0.00)	0.00(0.00)	26.00(28.30)
	c_{qt}^8	0.35(0.26)	18.00(13.35)	0.01(0.01)	0.10(0.08)	0.85(0.65)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.29(0.21)	0.00(0.00)	0.00(0.00)	26.01(44.92)
	c_{qu}^8	1.03(0.97)	58.27(54.68)	0.03(0.03)	0.30(0.28)	2.23(2.09)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.13(0.12)	0.00(0.00)	0.00(0.00)	17.42(22.50)
	c_{ut}^8	0.25(0.22)	41.62(37.84)	0.01(0.01)	0.10(0.09)	0.74(0.66)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.03(0.03)	0.00(0.00)	0.00(0.00)	51.08(55.57)
4Q	c_{QQ}^1	100.00(100.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(100.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{QQ}^8	93.37(93.42)	1.65(1.64)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{Qt}^1	82.92(82.93)	4.26(4.26)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{Qt}^8	99.19(99.19)	0.20(0.20)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{tt}^1	100.00(100.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
B	c_{WWW}	0.03(0.03)	0.00(0.00)	0.30(0.30)	0.00(0.00)	0.22(0.22)	4.56(4.54)	94.89(94.92)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi B}$	0.00(0.00)	0.00(0.00)	33.71(33.13)	9.66(10.08)	47.37(49.02)	0.00(0.00)	0.00(0.00)	9.27(7.76)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi D}$	0.01(0.00)	0.01(0.00)	66.89(92.18)	6.13(0.88)	17.89(3.51)	0.03(0.00)	8.74(3.38)	0.31(0.03)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi G}$	1.98(1.74)	1.37(1.20)	43.02(42.47)	11.60(11.30)	38.53(40.34)	0.00(0.00)	0.00(0.00)	3.51(2.96)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi W}$	0.00(-0.00)	0.00(-0.00)	33.68(32.56)	9.88(10.69)	47.17(50.48)	0.00(0.00)	0.00(0.00)	9.26(6.26)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi WB}$	0.00(-0.00)	0.00(-0.00)	34.14(34.20)	9.84(10.13)	46.78(47.98)	0.00(0.00)	0.12(0.05)	9.12(7.63)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi\Box}$	2.47(2.42)	1.69(1.65)	39.39(39.27)	10.56(10.80)	45.58(45.54)	0.00(0.00)	0.00(0.00)	0.31(0.31)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)

Table 1: Fisher information

Linear

	4H	AC	Hdiff	HrunI	HrunII	LEP	VV	WhelF	t13	t8	tW	tZ	tt13	tt8	ttW	ttZ
$c_{qq}^{1,1}$		52.9											39.1			
$c_{qq}^{1,3}$									15.2	54.0		27.1				
c_{dt}^{1}		34.9											54.8			
c_{qd}^{1}		38.0											55.7			
c_{qt}^{1}		60.3											35.3			
c_{qu}^{1}		40.8											55.2			
c_{ut}^{1}		62.5											31.8			
$c_{\varphi Q}^{3}$									15.1	47.0	11.7	17.0				
$c_{qq}^{1,8}$		23.2											37.5		20.0	10.2
$c_{qq}^{8,3}$		35.4								13.7					23.6	
c_{dt}^{8}		33.6											53.9			
c_{qd}^{8}		35.6											26.0	14.6		17.3
c_{qt}^{8}		18.0											26.0	11.8	31.1	11.5
c_{qu}^{8}		58.3											17.4			
c_{ut}^{8}		41.6											51.1			
c_{QQ}^{1}	100.0															
c_{QQ}^{8}	93.4															
c_{Qt}^{1}	82.9												12.8			
c_{Qt}^{8}	99.2															
c_{WWW}								94.9								
$c_{b\varphi}$				24.3	14.9	56.7										
$c_{c\varphi}$				24.6		61.3										
$c_{\varphi B}$				33.7		47.4										
$c_{\varphi D}$				66.9		17.9										
$c_{\varphi G}$				43.0	11.6	38.5										
$c_{\varphi Q}^{(-)}$				12.1		16.8										52.0
$c_{\varphi W}$				33.7		47.2										
$c_{\varphi WB}$				34.1		46.8										
$c_{\varphi\Box}$				39.4	10.6	45.6										
$c_{\varphi t}$															12.3	68.9
c_{tG}				28.0		26.7								18.0		
c_{tW}				31.7		44.4		13.6								
c_{tZ}				33.7		47.4										
$c_{\tau\varphi}$					36.2	62.2										
$c_{t\varphi}$				41.6	11.6	40.8										
c_{tt}^{1}	100.0															

Quadratic

	4H	AC	Hdiff	HrunI	HrunII	LEP	VV	WhelF	t13	t8	tW	tZ	tt13	tt8	ttW	ttZ
$c_{qq}^{1,1}$		33.7											60.7			
$c_{qq}^{1,3}$									13.0	44.9		18.2	18.4			
c_{dt}^{1}		26.8											65.1			
c_{qd}^{1}		35.7											58.4			
c_{qt}^{1}		43.6											52.9			
c_{qu}^{1}		24.9											72.5			
c_{ut}^{1}		56.3											38.4			
$c_{\varphi Q}^{3}$									14.9	46.3	11.6	16.7				
$c_{qq}^{1,8}$		16.5											56.2		13.9	
$c_{qq}^{8,3}$		27.7								10.8			28.0		18.5	
c_{dt}^{8}		30.2											58.6			
c_{qd}^{8}		34.4											28.3	14.2		16.8
c_{qt}^{8}		13.4											44.9		23.3	
c_{qu}^{8}		54.7											22.5			
c_{ut}^{8}		37.8											55.6			
c_{QQ}^{1}	100.0															
c_{QQ}^{8}	93.4															
c_{Qt}^{1}	82.9													12.8		
c_{Qt}^{8}	99.2															
c_{WWW}								94.9								
$c_{b\varphi}$				26.6	14.0	55.6										
$c_{c\varphi}$				25.4		60.6										
$c_{\varphi B}$				33.1	10.1	49.0										
$c_{\varphi D}$				92.2												
$c_{\varphi G}$				42.5	11.3	40.3										
$c_{\varphi Q}^{(-)}$				12.3		17.0										51.6
$c_{\varphi W}$				32.6	10.7	50.5										
$c_{\varphi WB}$				34.2	10.1	48.0										
$c_{\varphi\Box}$				39.3	10.8	45.5										
$c_{\varphi t}$															12.3	68.9
c_{tG}				66.4	15.3	44.0										
c_{tW}				35.0		49.0										
c_{tZ}				33.6		47.4										
$c_{\tau\varphi}$					40.1	58.1										
$c_{t\varphi}$				41.6	11.6	40.8										
c_{tt}^{1}	100.0															

Normalized Value

Class	Coefficient	Processes												
		4H	AC	Hdiff	HrunI	HrunII	LEP	VV	WhelF	t13	t8	tW	tZ	tt13
2FB	$c_{\varphi Q}^3$	0.00(0.00)	0.00(0.00)	4.95(7.37)	0.68(0.77)	3.54(4.12)	0.00(0.00)	0.00(0.00)	0.69(0.62)	16.44(15.94)	55.96(54.25)	6.25(6.08)	11.48(10.84)	0.00(0.00)
	$c_{b\varphi}$	0.00(0.00)	0.00(0.00)	25.49(24.98)	12.77(15.71)	57.39(58.11)	0.00(0.00)	0.00(0.00)	4.35(1.20)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{c\varphi}$	0.00(0.00)	0.00(0.00)	24.56(24.40)	9.97(10.36)	61.28(61.57)	0.00(0.00)	0.00(0.00)	4.19(3.67)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi Q}^{(-)}$	0.00(0.00)	0.00(0.00)	13.85(14.17)	3.79(3.85)	19.36(19.73)	0.00(0.00)	0.00(0.00)	3.79(3.77)	0.00(0.00)	0.00(0.00)	0.16(0.17)	1.56(1.65)	0.00(0.00)
	$c_{\varphi t}$	0.00(0.00)	0.00(0.00)	6.84(6.80)	1.96(1.95)	9.60(9.56)	0.00(0.00)	0.00(0.00)	1.88(1.87)	0.00(0.00)	0.00(0.00)	0.04(0.04)	0.39(0.39)	0.00(0.00)
	c_{tG}	3.27(3.69)	1.46(2.78)	36.47(60.73)	12.50(18.23)	12.30(17.56)	0.00(0.00)	0.00(0.00)	3.86(2.71)	0.00(0.00)	0.72(-0.69)	0.04(-0.05)	0.00(0.00)	8.79(-4.86)
	c_{tW}	0.00(0.00)	0.00(0.00)	31.67(35.81)	9.08(9.74)	44.48(46.10)	0.00(0.00)	0.74(-0.19)	13.71(8.59)	0.02(-0.00)	0.16(-0.02)	0.06(-0.01)	0.07(-0.01)	0.00(0.00)
	c_{tZ}	0.00(0.00)	0.00(0.00)	33.70(31.76)	9.67(9.65)	47.37(49.91)	0.00(0.00)	0.00(0.00)	9.27(8.68)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\tau\varphi}$	0.00(0.00)	0.00(0.00)	1.30(1.03)	36.25(37.12)	62.23(61.75)	0.00(0.00)	0.00(0.00)	0.22(0.10)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{t\varphi}$	2.37(2.39)	1.63(1.65)	42.13(42.28)	13.36(13.41)	38.32(38.10)	0.00(0.00)	0.00(0.00)	2.20(2.17)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
2Q2q	$c_{qq}^{1,1}$	95.79(94.38)	0.73(1.89)	0.00(0.00)	0.00(0.00)	0.00(0.01)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.24)
	$c_{qq}^{1,3}$	0.00(0.02)	0.00(2.45)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	16.79(20.71)	61.93(75.59)	1.31(-0.61)	19.97(0.47)	0.00(1.27)
	c_{dt}^1	95.00(94.95)	0.87(0.87)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.05)
	c_{qd}^1	94.47(94.41)	0.96(0.96)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.06)
	c_{qt}^1	94.91(94.84)	0.89(0.89)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.05)
	c_{qu}^1	94.83(94.77)	0.90(0.90)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.06)
	c_{ut}^1	96.13(96.06)	0.67(0.68)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.05)
	$c_{qq}^{1,8}$	0.11(0.10)	55.28(53.19)	0.01(0.01)	0.08(0.08)	0.59(0.51)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.11(0.12)	0.00(0.00)	0.00(0.00)	25.51(26.96)
	$c_{qq}^{8,3}$	0.08(0.06)	72.38(60.80)	0.01(0.00)	0.05(0.05)	0.25(0.21)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.01(0.00)	0.15(0.13)	0.00(0.00)	0.00(0.00)	15.99(29.35)
	c_{dt}^8	0.15(0.15)	53.18(51.87)	0.01(0.01)	0.11(0.11)	0.96(0.92)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.06(0.06)	0.00(0.00)	0.00(0.00)	36.34(38.02)
	c_{qd}^8	0.21(0.20)	51.83(50.43)	0.01(0.01)	0.10(0.10)	0.93(0.89)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.06(0.06)	0.00(0.00)	0.00(0.00)	35.70(37.60)
	c_{qt}^8	0.16(0.14)	56.61(54.44)	0.01(0.01)	0.08(0.07)	0.59(0.51)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.11(0.10)	0.00(0.00)	0.00(0.00)	26.85(31.16)
	c_{qu}^8	0.16(0.15)	66.49(67.22)	0.01(0.01)	0.08(0.08)	0.52(0.49)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.02(0.02)	0.00(0.00)	0.00(0.00)	26.68(26.31)
	c_{ut}^8	0.11(0.11)	67.66(68.29)	0.01(0.01)	0.08(0.08)	0.55(0.51)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.02(0.02)	0.00(0.00)	0.00(0.00)	25.89(25.50)
4Q	c_{QQ}^1	100.00(100.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{QQ}^8	88.22(88.26)	2.05(2.04)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{Qt}^1	80.31(80.32)	3.42(3.42)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{Qt}^8	97.95(97.95)	0.36(0.36)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	c_{tt}^1	100.00(100.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
B	c_{WWW}	0.19(0.19)	0.00(0.00)	1.10(1.10)	0.00(0.00)	2.93(2.93)	29.45(29.45)	66.33(66.34)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi B}$	0.00(0.00)	0.00(0.00)	33.71(32.07)	9.66(10.29)	47.37(51.30)	0.00(0.00)	0.00(0.00)	9.27(6.34)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi D}$	0.01(0.00)	0.01(0.00)	78.03(93.39)	4.03(0.30)	13.25(1.71)	0.02(0.00)	4.31(4.55)	0.34(0.04)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi G}$	1.63(2.47)	1.13(1.70)	38.77(51.63)	11.51(17.87)	44.07(20.02)	0.00(0.00)	0.00(0.00)	2.90(6.30)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi W}$	0.00(0.00)	0.00(0.00)	33.69(29.95)	9.89(10.60)	47.16(54.30)	0.00(0.00)	0.00(0.00)	9.26(5.15)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi WB}$	0.00(0.00)	0.00(0.00)	34.72(35.57)	9.77(9.98)	46.37(48.23)	0.00(0.00)	0.10(0.28)	9.04(5.94)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)
	$c_{\varphi\Box}$	2.46(2.41)	1.68(1.65)	39.52(39.36)	10.50(10.88)	45.47(45.30)	0.00(0.00)	0.00(0.00)	0.37(0.40)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)	0.00(0.00)

Table 1: Fisher information

Linear

Quadratic

Normalized Value