			NS NLO linear		NS LO linear
Class	Coefficients	Fitted	Fixed	Fitted	Fixed
	c_{tarphi}	√		√	
	c_{tG}	√		√	
	c_{barphi}	✓		√	
	c_{carphi}	√		√	
	$c_{ auarphi}$	√		√	
	c_{tW}	√		✓	
	c_{tZ}	√		√	
	$c_{\varphi l_1}$		$= -0.250 c_{\varphi D}$		$= -0.250 c_{\varphi D}$
	$c_{\varphi l_1}^3$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$
	$c_{\varphi l_2}$		$= -0.250 c_{\varphi D}$		$= -0.250 c_{\varphi D}$
	$c_{\varphi l_2}^3$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$
2FB	$c_{\varphi l_3}$		$= -0.250 c_{\varphi D}$		$= -0.250 c_{\varphi D}$
	$c_{\varphi l_3}^3$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$
	$c_{arphi e}$		$= -0.500 c_{\varphi D}$		$= -0.500 c_{\varphi D}$
	$c_{arphi\mu}$		$= -0.500 c_{\varphi D}$		$= -0.500 c_{\varphi D}$
	$c_{\varphi au}$		$= -0.500 c_{\varphi D}$		$= -0.500 c_{\varphi D}$
	$c_{arphi au}^{ au}$ $c_{arphi q}^{artheta}$ $c_{arphi Q}^{artheta}$ $c_{arphi q}^{(-)}$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$		$= -0.842 c_{\varphi D} - 1.835 c_{\varphi WB}$
	c_{φ_Q}	✓		√	
	$c_{\varphi q}'$		$= +0.925 c_{\varphi D} + 1.835 c_{\varphi WB}$		$= +0.925 c_{\varphi D} + 1.835 c_{\varphi WB}$
	$c_{arphi Q}^{(-)}$	✓		✓	
	$c_{arphi u}$		$= + 0.333 c_{\varphi D}$		$= + 0.333 c_{\varphi D}$
	$c_{arphi d}$		$= -0.167 c_{\varphi D}$		$= -0.167 c_{\varphi D}$
	$c_{arphi t}$	✓		√	
	c_{ll}		= + 0.0		= + 0.0
	$c_{qq}^{1,8}$ $c_{qq}^{1,1}$ $c_{qq}^{8,3}$ $c_{qq}^{1,3}$ $c_{qt}^{1,3}$ c_{qt}^{8}	✓		√	
	$c_{qq}^{1,1}$	√		√	
	$c_{qq}^{\diamond,3}$	√		√	
	$c_{qq}^{1,3}$	√		√	
	c_{qt}°	√		√	
	$c_{qt}^1 \\ c_{ut}^8$	√		√	
2Q2q	c_{ut}°	√		√	
	c_{ut}^1	√		√	
	c_{qu}^8	√		√	
	c_{qu}	√		√	
	c_{dt}^8	√ √		√ √	
	c_{dt}^{Γ} c_{qd}^{8}	√		∨ ✓	
		V ✓		V ✓	
	c_{qd}^1	∨ ✓		∨ ✓	
	c_{QQ}^1 c_{QQ}^8	√		∨ ✓	
4Q	c_{QQ}	√		√	
40	c_{Qt}	√		√	
	c_{Qt}^{\dagger} c_{Qt}^{δ} c_{Qt}^{\dagger}			· ·	
		√		√	
	$c_{\varphi G}$	√ √		√ √	
	$c_{\varphi B}$	√		√	
В	$c_{\varphi W}$	√		√	
ש	$c_{\varphi WB}$	√		∨ ✓	
	$c_{arphi\square} \ c_{arphi D}$	√		∨ ✓	
	$c_{\varphi D} = c_{\psi WW}$	√		V ✓	
	Number fitted coefficients			36	
	number fitted coefficients	36		30	

Table 1: Coefficient comparison

Type	Datasets	NS NLO linear	NS LO linear
	CMS_ttbb_13TeV	✓	√
	CMS_ttbb_13TeV_2016	✓	✓
4H	ATLAS_ttbb_13TeV_2016	✓	√
411	CMS_tttt_13TeV	✓	√
	CMS_tttt_13TeV_run2	√	✓
	ATLAS_tttt_13TeV_run2	√	√
10	ATLAS_CMS_tt_AC_8TeV	✓	√
AC	ATLAS_tt_AC_13TeV	√	√
	ATLAS_ggF_ZZ_13TeV	√	√
	CMS_ggF_aa_13TeV	·	· /
	ATLAS_H_13TeV_2015_pTH	·	· /
Hdiff	CMS_H_13TeV_2015_pTH	·	· ✓
	ATLAS_WH_Hbb_13TeV	·	· ·
	ATLAS_ZH_Hbb_13TeV	·	· ·
HrunI	ATLAS_CMS_SSinc_RunI	→	√
muni	ATLAS_SSinc_RunII	√	V
HrunII	CMS_SSinc_RunII	·	·
		√	√
	LEP_eeWW_182GeV	√	√
LEP	LEP_eeWW_189GeV	√	√
	LEP_eeWW_198GeV	√	√
	LEP_eeWW_206GeV	√	✓
	ATLAS_WW_13TeV_2016_memu	√	√
VV	ATLAS_WZ_13TeV_2016_mTWZ	✓	✓
	$CMS_WZ_13TeV_2016_pTZ$	✓	✓
WhelF	ATLAS_WhelF_8TeV	✓	✓
where	CMS_WhelF_8TeV	✓	√
	CMS_t_tch_13TeV_inc	√	√
419	CMS_t_tch_13TeV_diff_Yt	√	√
t13	CMS_t_tch_13TeV_2016_diff_Yt	√	√
	ATLAS_t_tch_13TeV	√	√
	CMS_t_tch_8TeV_inc	√	√
	CMS_t_tch_8TeV_diff_Yt	·	· √
t8	CMS_t_sch_8TeV	·	· ·
	ATLAS_t_tch_8TeV	·	· ·
	ATLAS_t_sch_8TeV	·	, , , , , , , , , , , , , , , , , , ,
	ATLAS_tW_8TeV_inc	→	√
	ATLAS_tW_slep_8TeV_inc	√	√
$^{\mathrm{tW}}$	CMS_tW_8TeV_inc	▼	V
0 **	ATLAS_tW_13TeV_inc	√	V
	CMS_tW_13TeV_inc	√	V ✓
	ATLAS_tZ_13TeV_inc	√	√
	ATLAS_tZ_13TeV_inc ATLAS_tZ_13TeV_run2_inc	· .	V ✓
tZ	CMS_tZ_13TeV_inc	√	√
	CMS_tZ_13TeV_inc CMS_tZ_13TeV_2016_inc	√	
		√	√
	CMS_tt_13TeV_ljets_2015_Mtt	√	√
	CMC 10Th M. I'll COLF M		
	CMS_tt_13TeV_dilep_2015_Mtt	√	√
tt13	CMS_tt_13TeV_ljets_2016_Mtt	✓	√
tt13	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt	√ √	√ √
tt13	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt	√ √ √	√
tt13	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt	√ √ √	√ √ √
	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt	√ √ √	√ √ √
tt13	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt	√ √ √	√ √ √
	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt	\(\)	√ √ √ √
	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV	\(\)	\frac{}{}
	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV	\(\)	\(\frac{1}{4} \)
	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV	\(\)	\frac{}{}
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016	\(\sqrt{\langle} \)	\frac{\sqrt{\chi}}{\sqrt{\chi}}
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV	\(\sqrt{\langle} \)	\frac{\sqrt{\chi}}{\sqrt{\chi}}
tt8	CMS_tt.13TeV_ljets_2016_Mtt CMS_tt.13TeV_dilep_2016_Mtt ATLAS_tt.13TeV_ljets_2016_Mtt ATLAS_tt.8TeV_ljets_Mtt ATLAS_tt.8TeV_ljets_Mtt CMS_tt.8TeV_dilep_Mtt CMS_tt.8TeV_ljets_Ytt CMS_tt.2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV CMS_ttW_13TeV CMS_ttW_13TeV		\(\sqrt{\sqrt{\chi}} \)
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt_8TeV_ljets_Ytt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV		\(\frac{1}{4} \) \(\frac{1}{
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV CMS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttZ_8TeV ATLAS_ttZ_13TeV		\(\frac{1}{\sqrt{1}} \)
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_dilep_Mtt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV CMS_ttW_13TeV ATLAS_ttZ_13TeV ATLAS_ttZ_13TeV ATLAS_ttZ_13TeV ATLAS_ttZ_13TeV		\(\frac{1}{\sqrt{1}} \)
tt8	CMS_tt_13TeV_ljets_2016_Mtt CMS_tt_13TeV_dilep_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_13TeV_ljets_2016_Mtt ATLAS_tt_8TeV_ljets_Mtt ATLAS_tt_8TeV_dilep_Mtt CMS_tt_8TeV_ljets_Ytt CMS_tt2D_8TeV_dilep_MttYtt ATLAS_ttW_8TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV_2016 CMS_ttW_8TeV CMS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttW_13TeV ATLAS_ttZ_8TeV ATLAS_ttZ_13TeV		\(\frac{1}{\sqrt{1}} \)

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 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)

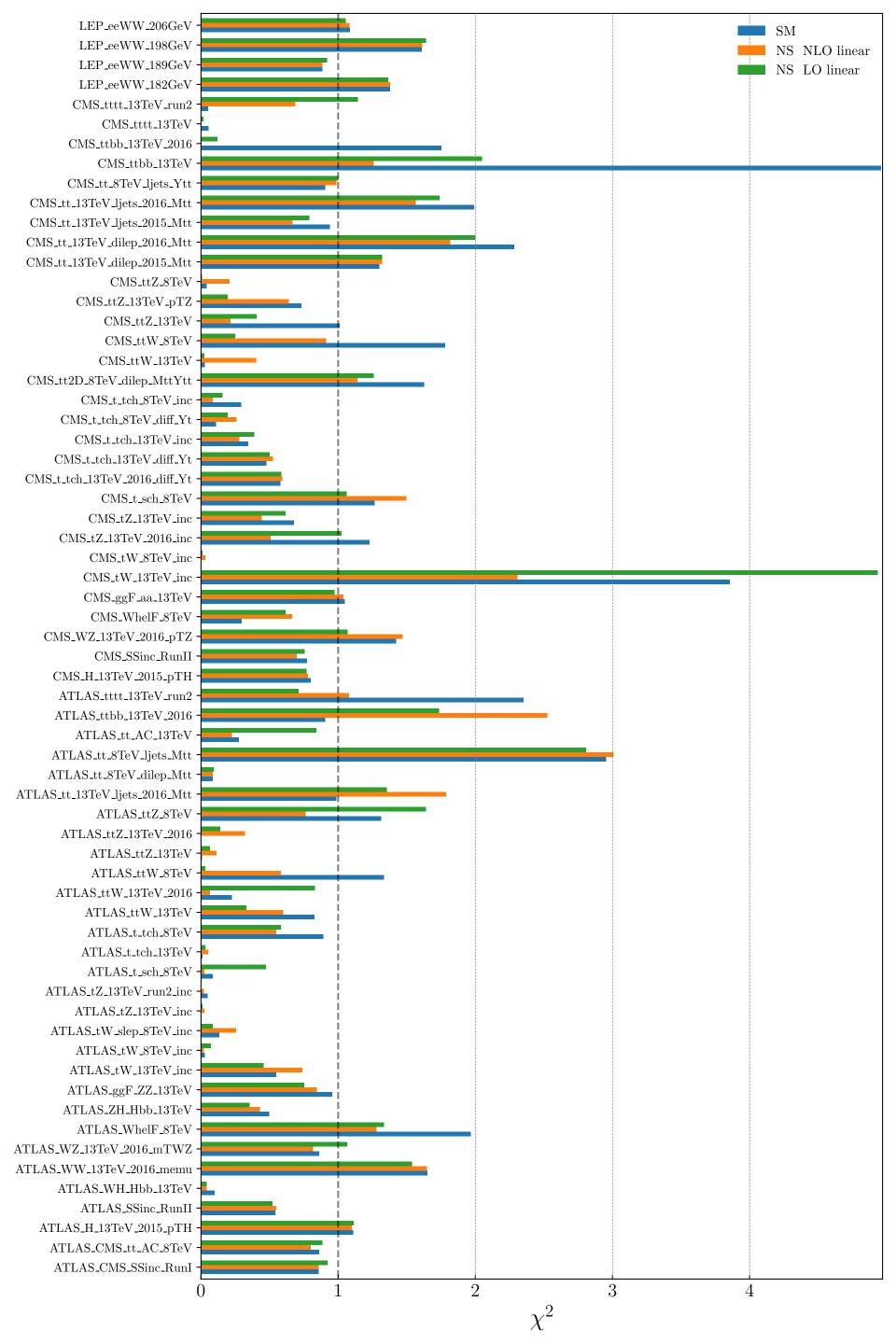
Table 15: χ^2 table for ttW data

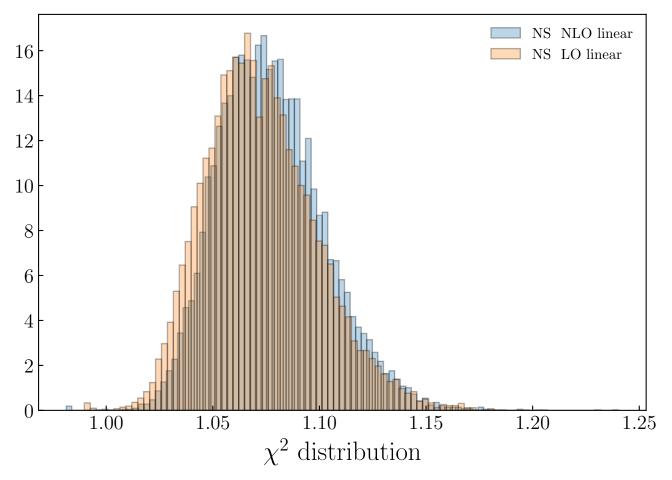
		SM	NS NLO linear	NS LO linear
Process	$N_{ m data}$	$\chi^2/N_{\rm data}$	χ^2/N_{data}	χ^2/N_{data}
ATLAS_ttZ_8TeV	1	1.314	0.764	1.641
ATLAS_ttZ_13TeV	1	0.007	0.112	0.065
ATLAS_ttZ_13TeV_2016	1	0.001	0.320	0.140
CMS_ttZ_8TeV	1	0.042	0.208	0.006
CMS_ttZ_13TeV	1	1.011	0.216	0.406
CMS_ttZ_13TeV_pTZ	4	0.732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

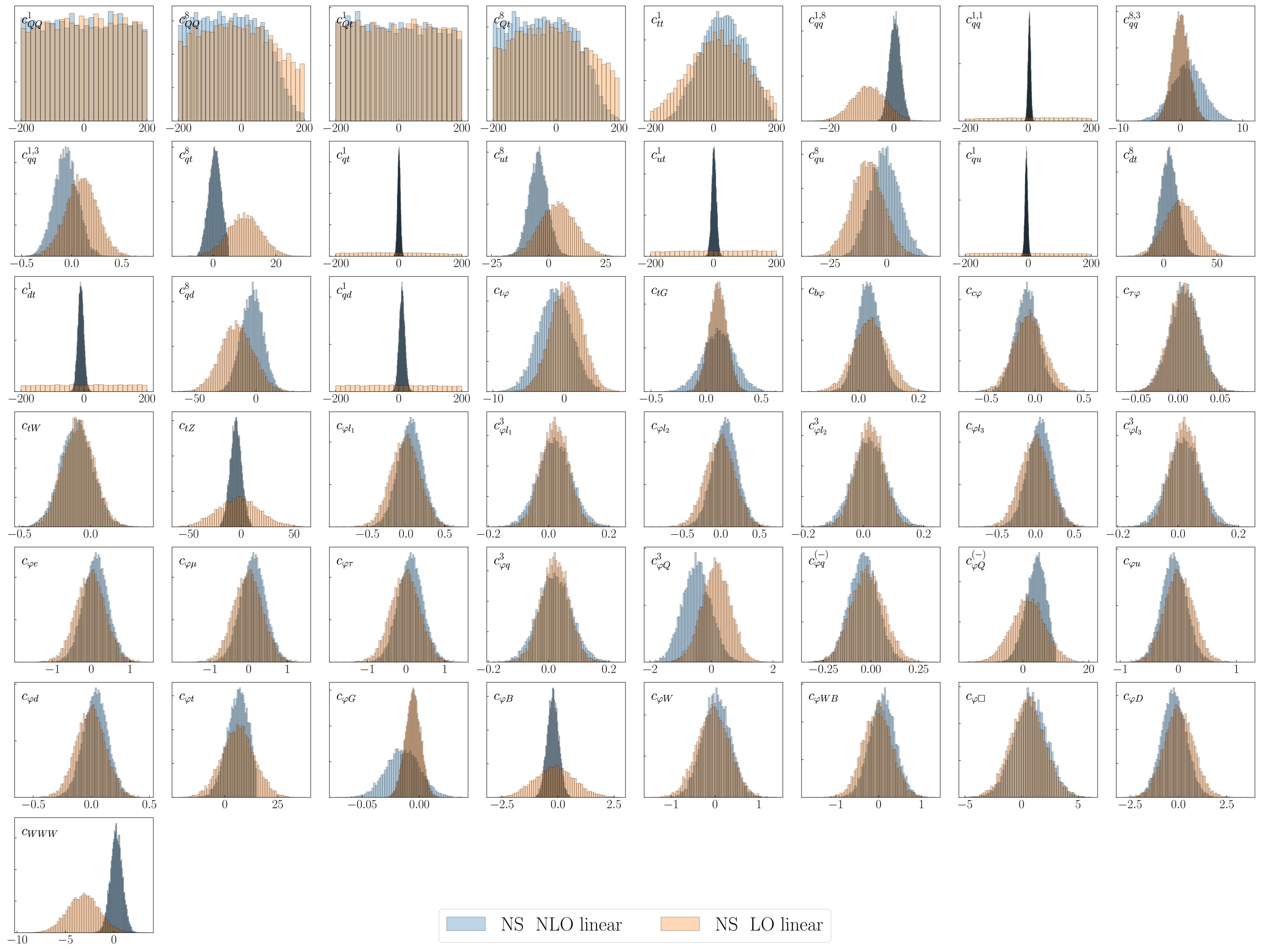
Table 16: χ^2 table for ttZ data

	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

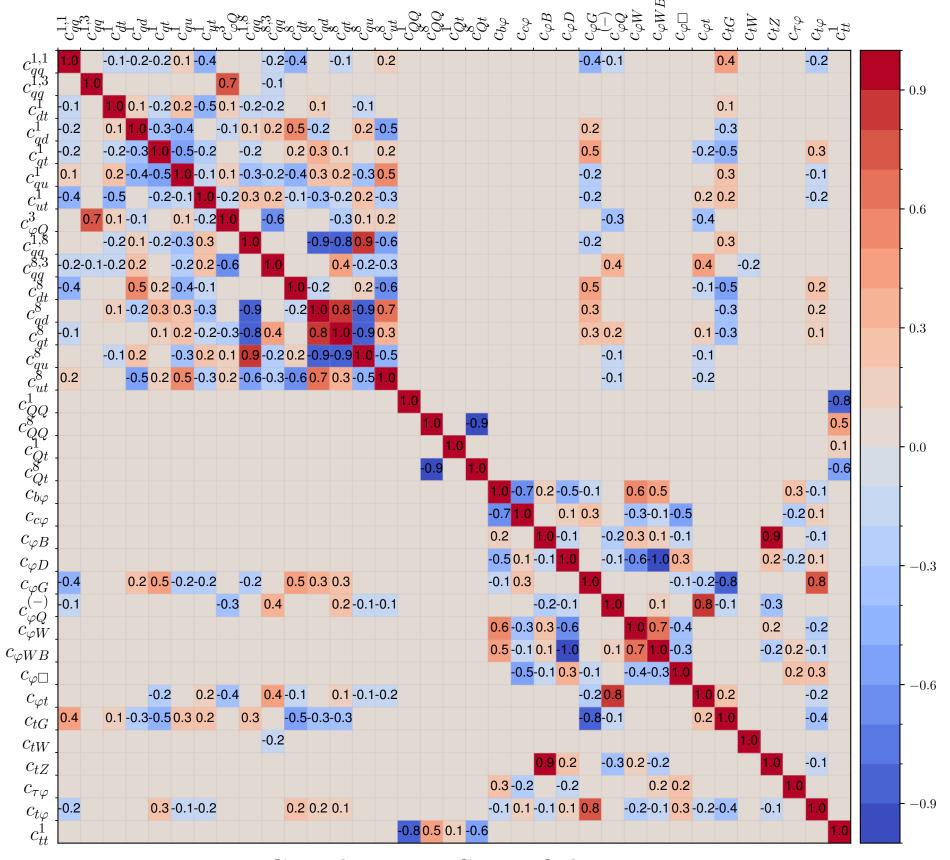




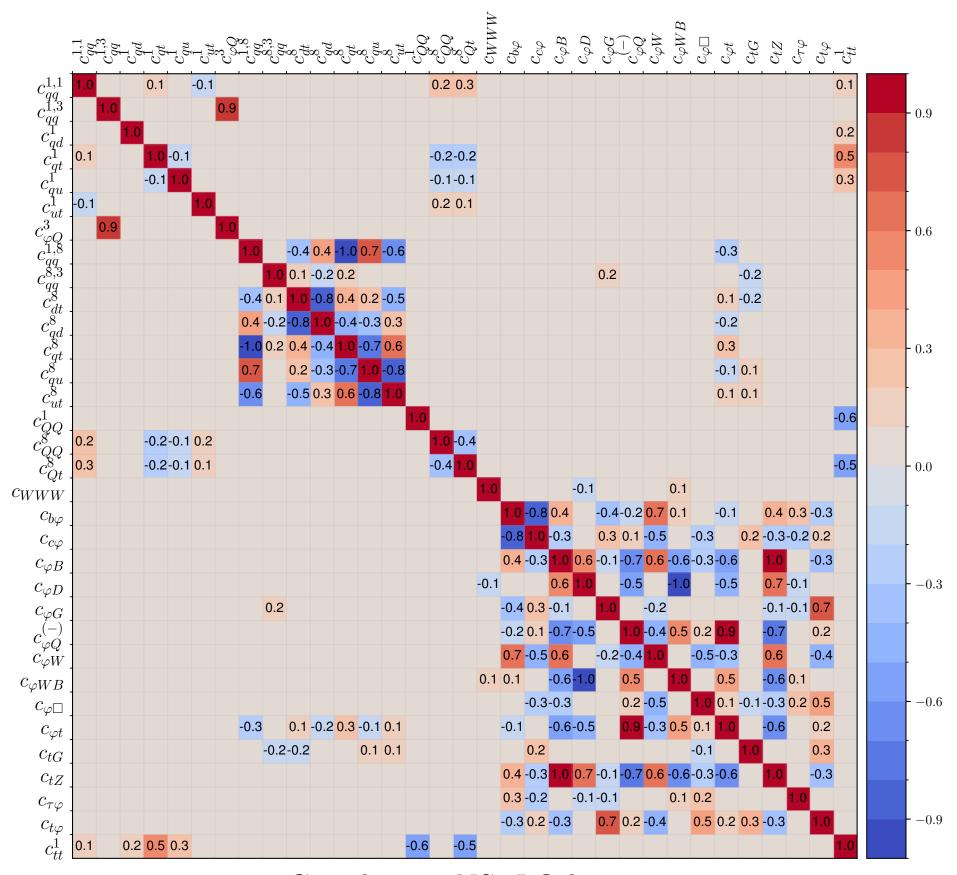


			NS NLO line	ear		NS LO linea	ar
Class	Coefficients	best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bour
	c_{tarphi}	-1.319	[-3.6699,1.0172]	[-5.9065,3.1833]	0.3107	[-1.8535,2.4807]	[-3.9873,4.512
	c_{tG}	0.1119	[-0.0305,0.2547]	[-0.1754,0.3954]	0.1067	[0.0255,0.1879]	[-0.0537,0.264
	c_{barphi}	0.0333	[-0.0036,0.0706]	[-0.0379,0.1052]	0.0404	[-0.0163,0.0968]	[-0.0725,0.152
	c_{carphi}	-0.0838	[-0.203,0.0347]	[-0.3154,0.153]	-0.0602	[-0.2192,0.0993]	[-0.3697,0.249
	$c_{ auarphi}$	0.0085	[-0.0092,0.0263]	[-0.0266,0.0427]	0.0072	[-0.0103,0.0249]	[-0.0278,0.042
	c_{tW}	-0.097	[-0.208, 0.0142]	[-0.3159,0.1207]	-0.0864	[-0.1975, 0.0237]	[-0.3006,0.129
	c_{tZ}	-4.9874	[-10.3553,0.331]	[-15.3265,5.547]	-2.5101	[-22.6321,17.1691]	[-40.3217,37.70
	$c_{\varphi l_1}$	0.0564	[-0.1027,0.2142]	[-0.2563,0.3684]	-0.008	[-0.1972,0.1784]	[-0.3753,0.355
	$c_{\varphi l_1}^3$	0.0205	[-0.0345,0.0761]	[-0.0877,0.1315]	0.0208	[-0.0262,0.0667]	[-0.07,0.1114
	Cual-	0.0564	[-0.1027,0.2142]	[-0.2563,0.3684]	-0.008	[-0.1972,0.1784]	[-0.3753,0.355
	$c_{\varphi l_2}^3$	0.0205	[-0.0345,0.0761]	[-0.0877,0.1315]	0.0208	[-0.0262,0.0667]	[-0.07,0.1114
2FB	$c_{\varphi l_3}$	0.0564	[-0.1027,0.2142]	[-0.2563,0.3684]	-0.008	[-0.1972,0.1784]	[-0.3753,0.355
	$c_{\varphi l_3}^3$	0.0205	[-0.0345,0.0761]	[-0.0877,0.1315]	0.0208	[-0.0262,0.0667]	[-0.07,0.1114
	$c_{arphi e}$	0.1129	[-0.2053, 0.4284]	[-0.5125,0.7368]	-0.016	[-0.3945, 0.3567]	[-0.7506,0.710
	$c_{arphi\mu}$	0.1129	[-0.2053,0.4284]	[-0.5125,0.7368]	-0.016	[-0.3945,0.3567]	[-0.7506,0.710
	$c_{arphi au}$	0.1129	[-0.2053,0.4284]	[-0.5125,0.7368]	-0.016	[-0.3945,0.3567]	[-0.7506,0.710
	$c_{\varphi q}^{3}$	0.0205	[-0.0345,0.0761]	[-0.0877,0.1315]	0.0208	[-0.0262,0.0667]	[-0.07,0.1114
	$c_{arphi Q}^3$	-0.4783	[-0.9332,-0.02]	[-1.3401,0.4161]	0.1505	[-0.3075,0.6124]	[-0.7753,1.046
	$\begin{array}{c} c_{\varphi Q}^{3} \\ \hline c_{\varphi q}^{(-)} \end{array}$	-0.0393	[-0.1141,0.0347]	[-0.1842,0.1061]	-0.0182	[-0.1061,0.0699]	[-0.1854,0.152
	$c_{\varphi Q}^{(-)}$	3.8419	[0.7911,6.897]	[-2.388,9.0179]	1.6163	[-3.5184,6.6903]	[-8.4488,11.72
	$c_{\varphi u}$	-0.0752	[-0.2856,0.1369]	[-0.4912,0.3416]	0.0107	[-0.2378,0.263]	[-0.4736,0.500
	$c_{\varphi d}$	0.0376	[-0.0685,0.1428]	[-0.1709,0.2457]	-0.0053	[-0.1315,0.1189]	[-0.2503,0.236
	$c_{arphi t}$	5.9061	[0.9299, 10.9885]	[-4.3207,13.945]	6.3396	[-1.3894,13.9278]	[-8.8735,21.37
	$c_{qq}^{1,8}$	0.3835	[-1.3549,2.1174]	[-2.8675,3.7741]	-7.7445	[-12.9236,-2.5798]	[-17.8064,2.38]
	$\begin{array}{c} c_{qq}^{1,8} \\ c_{qq}^{1,1} \\ c_{t,1}^{1} \\ c_{qq}^{2} \\ c_{qq}^{8,3} \\ c_{qq}^{1,3} \\ c_{qt}^{2} \end{array}$	3.5785	[-0.8403,7.9227]	[-5.1758,12.1473]	8.7019	[-121.4849,136.9849]	[-186.4523,188.7
	$c_{qq}^{8,3}$	1.1708	[-1.3959,3.702]	[-3.903,6.142]	0.0192	[-1.3258,1.3648]	[-2.6392,2.76
	$c_{qq}^{1,3}$	-0.0574	[-0.1736,0.0618]	[-0.2875,0.1703]	0.0999	[-0.055,0.2553]	[-0.2135,0.406
	c_{qt}^8	0.5821	[-1.4169,2.605]	[-3.3059,4.2718]	9.9645	[4.7283, 15.2459]	[-0.4876,20.279
	c_{at}^1	0.7048	[-3.9421,5.2954]	[-8.3959,9.7133]	-10.9784	[-136.2497,117.1323]	[-189.3275,186.1
2Q2q	c_{ut}^8	-4.5692	[-8.6172,-0.5494]	[-12.4541,3.3923]	3.9949	[-3.7437,11.7919]	[-11.1643,19.07
2 % 2 9	c_{ut}^1	1.6099	[-5.8749,9.2035]	[-13.641,16.7281]	4.5594	[-129.1558,136.741]	[-188.1938,190.4
	c_{au}^8	-0.8739	[-7.3132,5.5559]	[-12.8684,11.7645]	-8.4268	[-15.3933,-1.3859]	[-22.5032,5.54]
	c_{qu}^1	-5.9533	[-10.2874,-1.59]	[-14.7225,2.7967]	-6.8651	[-136.773,128.4318]	[-188.7791,187.1
	c_{dt}^8	4.9209	[-3.2258,13.0604]	[-10.9042,21.0258]	15.6612	[0.6277, 30.7873]	[-14.1386,44.28
	c_{dt}^1	-10.1456	[-19.6332,-0.7949]	[-28.5707,8.3276]	3.2862	[-131.8071,138.1521]	[-188.7328,190.1
	c_{qd}^8	-3.1012	[-11.9695,5.5047]	[-20.0401,13.6058]	-15.4459	[-28.5719,-1.9945]	[-41.4181,10.68
	c_{qd}^1	10.3771	[1.1103, 19.6158]	[-7.844,28.8619]	-3.5302	[-136.8674,130.2808]	[-190.3014,189.2
	c_{QQ}^1	-0.5758	[-137.1981,134.3793]	[-190.5568,189.0418]	1.5736	[-132.7202,133.7609]	[-189.7687,188.7
	c_{QQ}^8	-35.2361	[-147.2227,73.8373]	[-191.4467,143.9461]	-11.2418	[-136.6684,113.3754]	[-189.262,185.19
4Q	c_{Qt}^1	-4.6691	[-139.1447,131.7386]	[-190.3091,188.5192]	-1.959	[-137.9149,133.8078]	[-190.5481,188.9
	c_{Qt}^8	-38.9508	[-147.4465,67.0317]	[-191.9114,135.366]	-12.4098	[-133.8047,111.511]	[-189.3067,182.0
	c_{tt}^1	32.0219	[-40.3981,105.2719]	[-100.2454,159.4708]	13.4785	[-81.0282,109.0731]	[-161.0027,176.3
	$c_{\varphi G}$	-0.0141	[-0.0287,0.0004]	[-0.0425,0.0146]	-0.0056	[-0.0124,0.0012]	[-0.0191,0.007
	$c_{\varphi B}$	-0.2229	[-0.4808,0.0353]	[-0.7164,0.2697]	-0.137	[-1.0384,0.7415]	[-1.8125,1.648
	$c_{\varphi W}$	0.0285	[-0.2881,0.3441]	[-0.5877,0.6363]	-0.0344	[-0.4073,0.3371]	[-0.744,0.691]
В	$c_{\varphi WB}$	0.0924	[-0.2028,0.3833]	[-0.4841,0.668]	-0.0261	[-0.3672,0.3111]	[-0.6882,0.633
	$c_{\varphi\Box}$	0.7936	[-0.6684,2.2506]	[-2.0837,3.6377]	0.5381	[-0.9667,2.0332]	[-2.4462,3.547
	$c_{\varphi D}$	-0.2257	[-0.8568,0.4106]	[-1.4737,1.025]	0.032	[-0.7134,0.7889]	[-1.421,1.501]
	c_{WWW}	0.2599	[-0.351, 0.8737]	[-0.9639,1.4773]	-3.1436	[-4.778,-1.5076]	[-6.3597,0.104

Table 1: Coefficient comparison



Correlation: NS NLO linear



Correlation: NS LO linear

```
 \frac{\text{PC00 (5.36e+05):}}{+0.013c_{\tau\varphi}} - 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} 
 \frac{\text{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} + 0.029c_{tZ} - 0.014c_{e\varphi} + 0.029c_{tZ} - 0.014c_{e\varphi} + 0.029c_{e\varphi} - 0.029c_{e\varphi} - 0.029c_{e\varphi} - 0.029c_{e\varphi} + 0.046c_{e\varphi} + 0.046c_
```

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

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

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

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

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

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

```
+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}^{8} +0.010c_{ut}^{1} \\
```

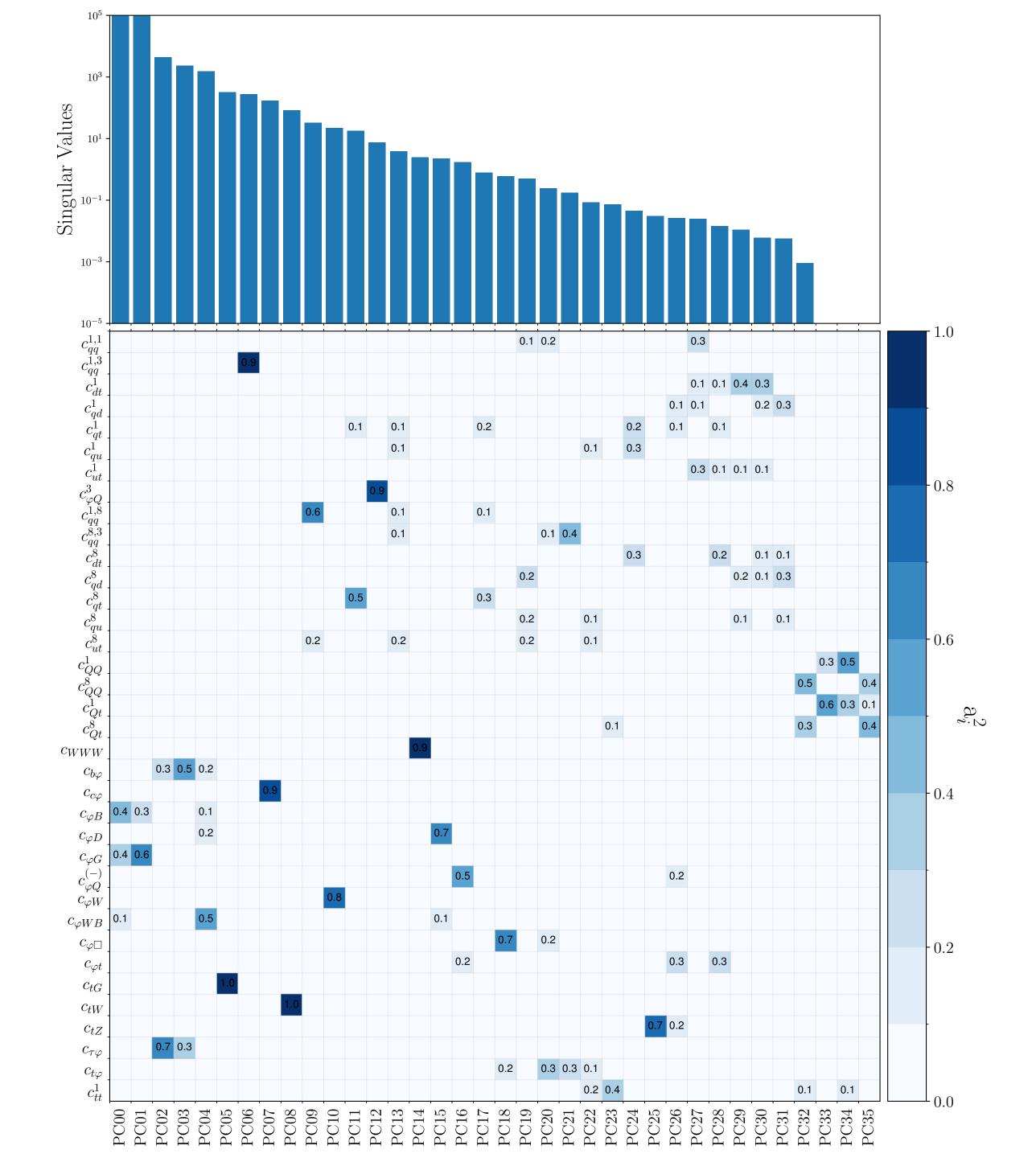
 $\frac{\textbf{PC20 (2.47e-01):}}{-0.093c_{qu}^8 - 0.085c_{QQ}^1 + 0.078c_{\varphi D} + 0.428c_{qq}^{1,1} + 0.403c_{\varphi \Box} - 0.347c_{qq}^{8,3} + 0.271c_{ut}^1 - 0.172c_{tt}^1 - 0.123c_{qu}^1 + 0.123c_{dt}^1 - 0.101c_{qq}^{1,8} - 0.098c_{Qt}^8}{-0.093c_{qu}^8 - 0.085c_{QQ}^1 + 0.078c_{\varphi D} + 0.073c_{\varphi t}^2 - 0.073c_{ut}^8 - 0.056c_{qt}^8 + 0.055c_{dt}^8 - 0.049c_{\varphi Q}^{(-)} - 0.049c_{\varphi W} + 0.036c_{\varphi Q}^3 - 0.036c_{\varphi WB}}{-0.029c_{QQ}^8 + 0.028c_{qd}^8 - 0.025c_{qd}^1 + 0.015c_{tG} - 0.014c_{tZ}}$

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

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

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

<u>PC35 (3.46e-11):</u> $-0.657c_{Qt}^8 + 0.629c_{QQ}^8 + 0.333c_{Qt}^1 + 0.242c_{tt}^1 + 0.057c_{QQ}^1$



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

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

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

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

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

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

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

 $\frac{\textbf{PC19 (1.94e-01):}}{-0.015c_{\varphi Q}^{(-)} + 0.014c_{ut}^8 - 0.012c_{qu}^8 - 0.0116c_{qq}^{8,3} - 0.073c_{\varphi D} + 0.049c_{\varphi W} - 0.037c_{tZ} + 0.033c_{\varphi WB} - 0.026c_{qt}^8 - 0.020c_{WWW}}{-0.015c_{\varphi Q}^{(-)} + 0.014c_{ut}^8 - 0.012c_{qu}^8 - 0.011c_{qd}^8}$

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

 $\frac{\textbf{PC27 (1.06e-10):}}{+0.012c_{qq}^{1,1} + 0.255c_{Qt}^{8} + 0.215c_{QQ}^{8} + 0.215c_{QQ}^{8} + 0.135c_{qt}^{1} - 0.116c_{ut}^{1} + 0.087c_{qu}^{1} + 0.084c_{tt}^{1} - 0.067c_{dt}^{1} + 0.051c_{qd}^{1} + 0.044c_{QQ}^{1} + 0.028c_{Qt}^{1}} + 0.028c_{Qt}^{1}$

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

 $\underline{\textbf{PC29 (5.27e-11):}} -0.843c_{qt}^{1} -0.297c_{tt}^{1} +0.297c_{QQ}^{8} +0.189c_{Qt}^{8} +0.184c_{qu}^{1} -0.143c_{QQ}^{1} -0.136c_{ut}^{1} +0.052c_{Qt}^{1} -0.040c_{qd}^{1} -0.028c_{dt}^{1} +0.084c_{qd}^{1} -0.018c_{qd}^{1} +0.084c_{qd}^{1} -0.018c_{qd}^{1} +0.084c_{qd}^{1} +0.084c_{qd}^{1} -0.008c_{qd}^{1} +0.008c_{qd}^{1} +0.008c_{qd}^{1$

 $\underline{\textbf{PC30 (5.27e-11):}} \ -0.969c_{qd}^{1} \ +0.193c_{qu}^{1} \ +0.132c_{qt}^{1} \ +0.050c_{QQ}^{8} \ -0.040c_{tt}^{1} \ +0.037c_{Qt}^{8} \ -0.022c_{QQ}^{1} \ +0.010c_{dt}^{1} \ +0.01$

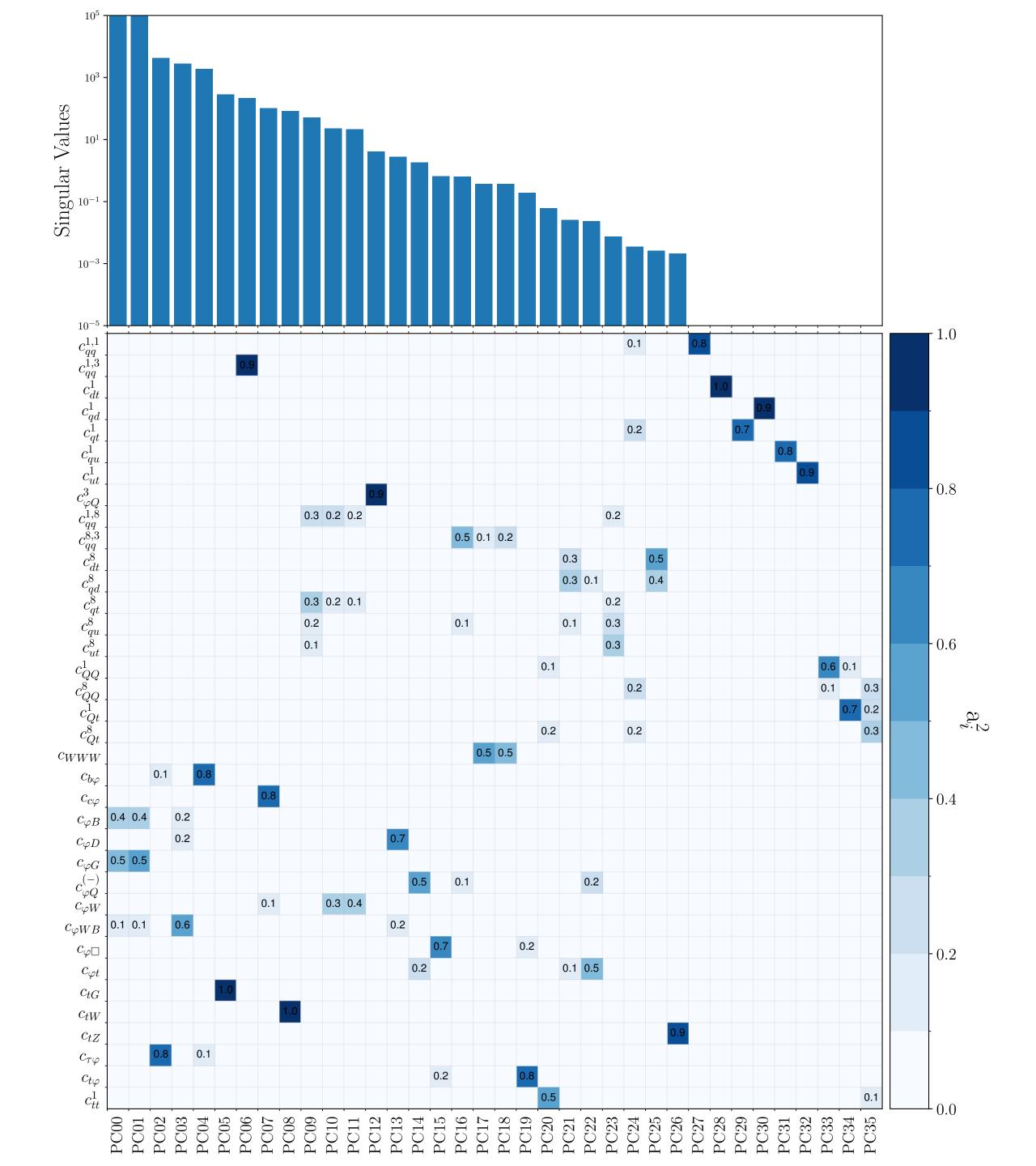
 $\underline{\textbf{PC31 (5.27e-11):}} + 0.892c_{qu}^{1} - 0.282c_{QQ}^{8} + 0.235c_{tt}^{1} - 0.187c_{Qt}^{8} + 0.137c_{qd}^{1} + 0.094c_{QQ}^{1} - 0.063c_{ut}^{1} - 0.044c_{qt}^{1} - 0.040c_{Qt}^{1}$

 $\underline{\textbf{PC32 (5.27e-11):}} + 0.923c_{ut}^1 + 0.273c_{Qt}^8 - 0.159c_{QQ}^1 + 0.141c_{qu}^1 + 0.107c_{QQ}^8 + 0.100c_{tt}^1 + 0.059c_{Qt}^1 + 0.043c_{qd}^1 - 0.026c_{qt}^1 + 0.043c_{qd}^1 + 0.0$

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

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

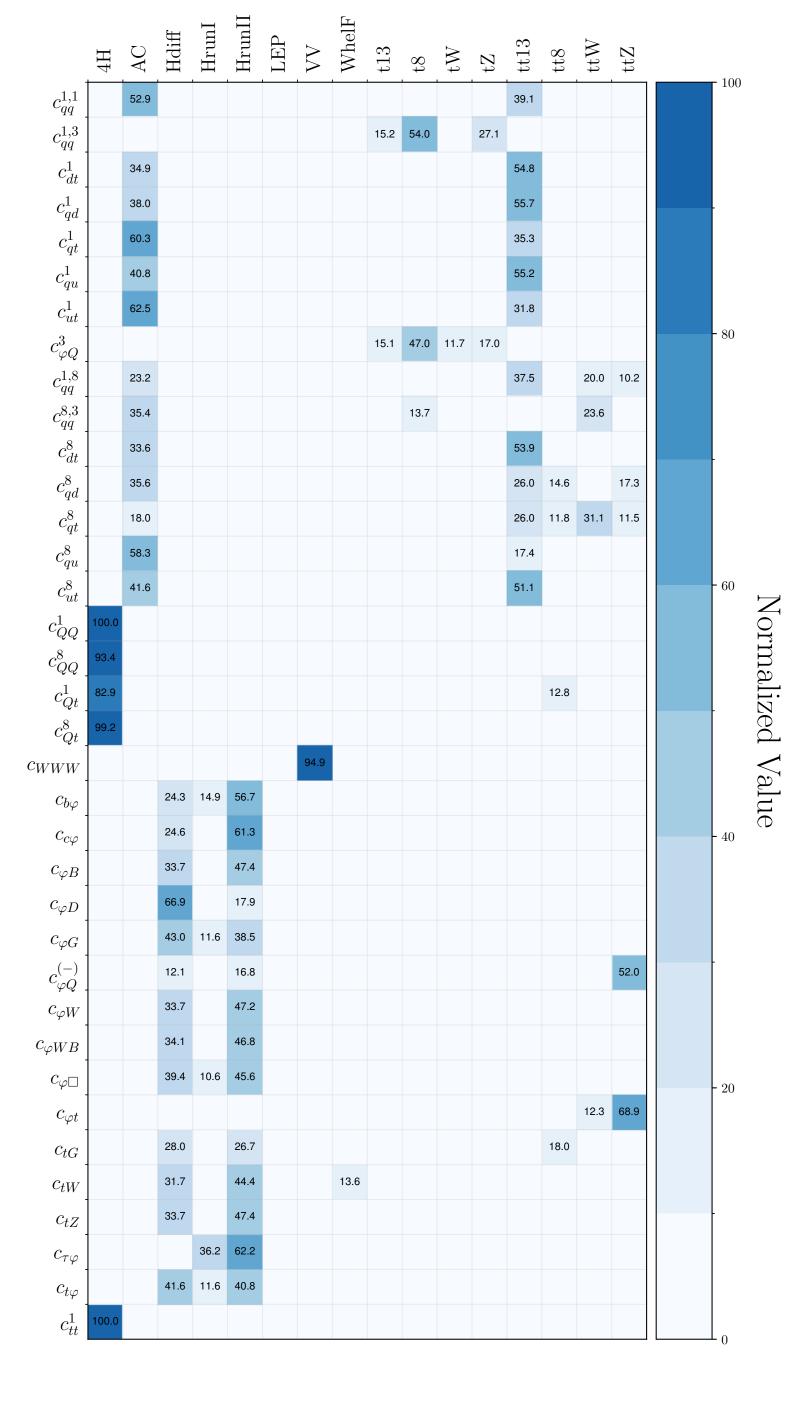
 $\underline{\textbf{PC35 (5.27e-11):}} \ -0.564c_{Qt}^8 \ +0.515c_{QQ}^8 \ +0.490c_{Qt}^1 \ +0.351c_{tt}^1 \ -0.232c_{QQ}^1 \ +0.490c_{Qt}^2 \ +0.490c_{Qt}^$



-	

			Processes														
Class	Coefficient	4H	AC	Hdiff	HrunI	HrunII	LEP	VV	WhelF	t13	t8	tW	tZ	tt13	tt8	ttW	ttZ
	$c_{\varphi Q}^3$	0.00	0.00	5.52	0.51	2.64	0.00	0.00	0.51	15.14	47.03	11.69	16.96	0.00	0.00	0.00	0.00
	$c_{b\varphi}$	0.00	0.00	24.25	14.89	56.68	0.00	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	24.56	9.97	61.28	0.00	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$\frac{c_{c\varphi}}{c_{\varphi Q}^{(-)}}$	0.00	0.00	12.11	3.27	16.80	0.00	0.00	3.26	0.00	0.00	0.51	2.41	0.00	0.00	9.66	51.97
2FB	$c_{\varphi t}$	0.00	0.00	6.17	1.70	8.57	0.00	0.00	1.66	0.00	0.00	0.12	0.58	0.00	0.00	12.28	68.91
	c_{tG}	1.99	0.91	27.98	7.54	26.65	0.00	0.00	2.42	0.00	1.03	0.05	0.00	8.06	18.05	0.40	4.93
	c_{tW}	0.00	0.00	31.67	9.07	44.44	0.00	0.72	13.55	0.03	0.26	0.12	0.14	0.00	0.00	0.00	0.00
	c_{tZ}	0.00	0.00	33.70	9.66	47.36	0.00	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	$c_{ auarphi}$	0.00	0.00	1.30	36.25	62.23	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{t\varphi}$	2.29	1.58	41.59	11.58	40.84	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{t\varphi} \\ c_{qq}^{1,1} \\ c_{qq}^{1,3} \\ c_{qq}^{1,3}$	0.56	52.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	39.11	7.15	0.00	0.12
	$c_{qq}^{1,3}$	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	15.18	54.00	3.66	27.08	0.02	0.01	0.00	0.00
	$c_{dt}^{_1}$	0.47	34.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	54.78	8.72	0.00	0.38
	c_{qd}^1	0.25	38.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	55.66	5.90	0.00	0.15
	c_{at}^1	0.28	60.31	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	35.27	4.09	0.00	0.04
	c_{au}^{I}	0.15	40.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	55.15	3.89	0.00	0.01
2Q2q	c_{ut}^1	0.56	62.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	31.81	4.97	0.00	0.10
	$c_{aa}^{1,8}$	0.15	23.18	0.01	0.07	0.52	0.00	0.00	0.00	0.00	0.17	0.00	0.00	37.52	8.25	19.96	10.17
	$c_{ut}^{1} \\ c_{ut}^{1,8} \\ c_{qq}^{1,8} \\ c_{qq}^{8,3} \\ c_{qq}^{8,3}$	0.16	35.41	0.01	0.06	0.33	0.00	0.00	0.00	3.37	13.73	0.00	1.35	8.18	8.99	23.56	4.86
	c_{d+}°	0.27	33.56	0.01	0.12	1.13	0.00	0.00	0.00	0.00	0.07	0.00	0.00	53.90	6.95	0.53	3.45
	c_{qd}^{gt}	0.81	35.56	0.03	0.26	2.48	0.00	0.00	0.00	0.00	0.23	0.00	0.00	26.00	14.58	2.71	17.34
	c_{at}°	0.35	18.00	0.01	0.10	0.85	0.00	0.00	0.00	0.00	0.29	0.00	0.00	26.01	11.79	31.14	11.46
	c_{qu}^{g}	1.03	58.27	0.03	0.30	2.23	0.00	0.00	0.00	0.00	0.13	0.00	0.00	17.42	9.98	1.35	9.25
	c_{ut}^8	0.25	41.62	0.01	0.10	0.74	0.00	0.00	0.00	0.00	0.03	0.00	0.00	51.08	4.47	0.20	1.49
	c_{QQ}^1	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
	c_{QQ}^{8}	93.37	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.98	0.00	0.00
4Q	c_{Ot}^{1}	82.92	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.82	0.00	0.00
	c_{Qt}^{8}	99.19	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00
	c_{tt}^{1}	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
	c_{WWW}	0.03	0.00	0.30	0.00	0.22	4.56	94.89	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	33.71	9.66	47.37	0.00	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi D}$	0.01	0.01	66.89	6.13	17.89	0.03	8.74	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
В	$c_{\varphi G}$	1.98	1.37	43.02	11.60	38.53	0.00	0.00	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi W}$	0.00	0.00	33.68	9.88	47.17	0.00	0.00	9.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi WB}$	0.00	0.00	34.14	9.84	46.78	0.00	0.12	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	c_{φ}	2.47	1.69	39.39	10.56	45.58	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 1: Fisher information



Linear

	$c_{\varphi Q}$	0.00	0.00	4.95	0.68	3.54	0.00	0.00	0.69	16.44	55.96	6.25	11.48	0.00	0.00	0.00	0.00
	$c_{b\varphi}$	0.00	0.00	25.49	12.77	57.39	0.00	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{c\varphi}$	0.00	0.00	24.56	9.97	61.28	0.00	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi Q}^{(\stackrel{-}{-})}$	0.00	0.00	13.85	3.79	19.36	0.00	0.00	3.79	0.00	0.00	0.16	1.56	0.00	0.00	8.31	49.18
2FI	$c_{\varphi t}$	0.00	0.00	6.84	1.96	9.60	0.00	0.00	1.88	0.00	0.00	0.04	0.39	0.00	0.00	11.28	68.01
	c_{tG}	3.27	1.46	36.47	12.50	12.30	0.00	0.00	3.86	0.00	0.72	0.04	0.00	8.79	16.22	0.33	4.04
İ	c_{tW}	0.00	0.00	31.67	9.08	44.48	0.00	0.74	13.71	0.02	0.16	0.06	0.07	0.00	0.00	0.00	0.00
	c_{tZ}	0.00	0.00	33.70	9.67	47.37	0.00	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{ au arphi}$	0.00	0.00	1.30	36.25	62.23	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{t\varphi}$	2.37	1.63	42.13	13.36	38.32	0.00	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$\begin{array}{c} c_{t\varphi} \\ c_{qq}^{1,1} \\ c_{qq}^{1,3} \end{array}$	95.79	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	0.00	0.00
	$c_{qq}^{1,3}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.79	61.93	1.31	19.97	0.00	0.00	0.00	0.00
	c_{dt}^1	95.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00
	c_{qd}^1	94.47	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57	0.00	0.00
	c_{qt}^1	94.91	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00
	c_{au}^{1}	94.83	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.27	0.00	0.00
2Q2	c_{ut}^{1}	96.13	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.20	0.00	0.00
	$c_{qq}^{1,8}$	0.11	55.28	0.01	0.08	0.59	0.00	0.00	0.00	0.00	0.11	0.00	0.00	25.51	4.83	6.66	6.81
	$c_{qq}^{8,3} \\ c_{qq}^{8} \\ c_{dt}^{8} \\ c_{qd}^{8}$	0.08	72.38	0.01	0.05	0.25	0.00	0.00	0.00	0.01	0.15	0.00	0.00	15.99	3.50	5.19	2.39
	c_{dt}^8	0.15	53.18	0.01	0.11	0.96	0.00	0.00	0.00	0.00	0.06	0.00	0.00	36.34	7.13	0.22	1.83
	c_{ad}^{8}	0.21	51.83	0.01	0.10	0.93	0.00	0.00	0.00	0.00	0.06	0.00	0.00	35.70	6.79	0.50	3.87
	c_{gt}^{qu}	0.16	56.61	0.01	0.08	0.59	0.00	0.00	0.00	0.00	0.11	0.00	0.00	26.85	4.77	6.18	4.64
	c_{qu}^{gv}	0.16	66.49	0.01	0.08	0.52	0.00	0.00	0.00	0.00	0.02	0.00	0.00	26.68	4.57	0.15	1.33
	c_{ut}^{qu}	0.11	67.66	0.01	0.08	0.55	0.00	0.00	0.00	0.00	0.02	0.00	0.00	25.89	4.90	0.07	0.70
	c_{QQ}^{1}	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
	$c_{QQ}^{\frac{3}{3}}$	88.22	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.00	0.00
4Q	c_{Qt}^{I}	80.31	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.27	0.00	0.00
	$c_{Qt}^{\delta t}$	97.95	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.00	0.00
	c_{tt}^1	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
	c_{WWW}	0.19	0.00	1.10	0.00	2.93	29.45	66.33	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	33.71	9.66	47.37	0.00	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi D}$	0.01	0.01	78.03	4.03	13.25	0.02	4.31	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
В	$c_{\varphi G}$	1.63	1.13	38.77	11.51	44.07	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi W}$	0.00	0.00	33.69	9.89	47.16	0.00	0.00	9.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$c_{\varphi WB}$	0.00	0.00	34.72	9.77	46.37	0.00	0.10	9.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	9.46	1 1 60	1 20 50	10 50	45 47	1 0 00		0.27	1 0 00		0.00	0.00	0.00		0.00	1 0 00 1

VV

0.00

Class

Coefficient

4H

0.00

2.46

1.68

39.52

10.50

45.47

0.00

AC

0.00

Hdiff

4.95

HrunI

0.68

HrunII LEP

0.00

3.54

Processes

0.69

WhelF t13

16.44

t8

55.96

 $^{\mathrm{tW}}$

6.25

tZ

11.48

tt13

0.00

tt8

0.00

ttW

0.00

ttZ

0.00

0.00 Table 1: Fisher information

0.37

0.00

0.00

0.00

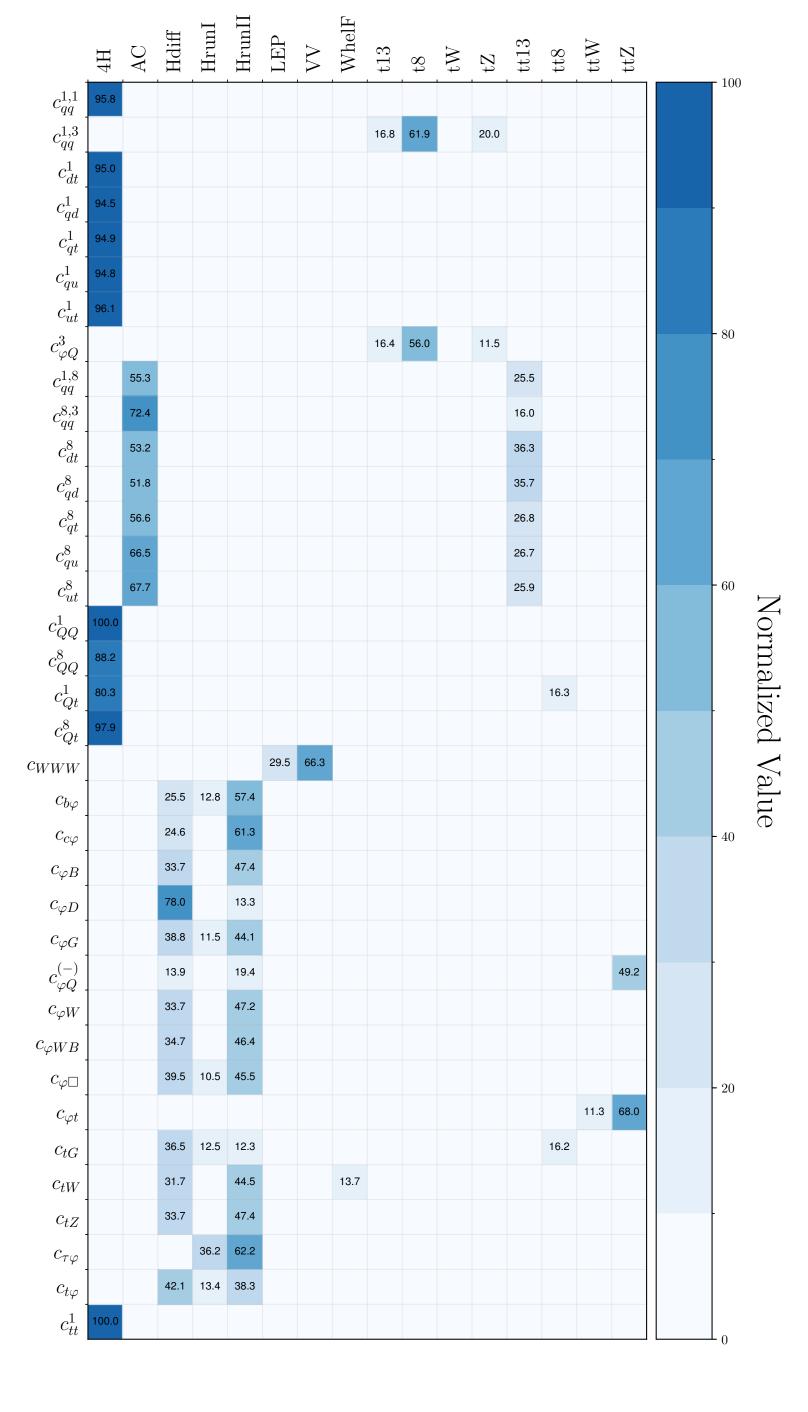
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Linear