Class	Coefficients	HL-LHC		CLIC: 380 GeV		CLIC: 380 + 1500 GeV		CLIC: 380 + 1500 + 3000 Ge
		Fitted	Fixed	Fitted	Fixed	Fitted	Fixed	Fitted	Fixed
2FB	$c_{c\varphi}$	✓		✓		✓		✓	
	$c_{b\varphi}$	✓		✓		✓		✓	
	$c_{t\varphi}$	✓		✓		✓		✓	
	$c_{\tau\varphi}$	✓		✓		✓		✓	
	c_{tG}	✓		✓		✓		✓	
	c_{tW}	✓		✓		✓		✓	
	c_{tZ}	✓		✓		✓		✓	
	$c_{\varphi q}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi Q}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi q}^{(-)}$	✓		✓		✓		✓	
	$c_{\varphi Q}^{(-)}$	✓		✓		✓		✓	
	$c_{\varphi u}$	✓		✓		✓		✓	
	$c_{\varphi d}$	✓		✓		✓		✓	
	$c_{\varphi t}$	✓		✓		✓		✓	
	$c_{\varphi l_1}$	✓		✓		✓		✓	
	$c_{\varphi l_2}$	✓		✓		✓		✓	
	$c_{\varphi l_3}$	✓		✓		✓		✓	
	$c_{\varphi l_1}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi l_2}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi l_3}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi e}$	✓		✓		✓		✓	
	$c_{\varphi \mu}$	✓		✓		✓		✓	
	$c_{\varphi \tau}$	✓		✓		✓		✓	
4l	c_{ll}	✓		✓		✓		✓	
B	$c_{\varphi G}$	✓		✓		✓		✓	
	$c_{\varphi B}$	✓		✓		✓		✓	
	$c_{\varphi W}$	✓		✓		✓		✓	
	$c_{\varphi WB}$	✓		✓		✓		✓	
	c_{WWW}	✓		✓		✓		✓	
	$c_{\varphi \Box}$	✓		✓		✓		✓	
	$c_{\varphi D}$	✓		✓		✓		✓	
	Number fitted coefficients	31		31		31		31	

Table 1: Coefficient comparison

Type	Datasets	HL-LHC	CLIC: 380 GeV	CLIC: 380 + 1500 GeV	CLIC: 380 + 1500 + 3000 G
4H	ATLAS_ttbb_13TeV_2016	✓	✓	✓	✓
	ATLAS_tttt_13TeV_run2	✓	✓	✓	✓
	ATLAS_tttt_13TeV_slep_inc	✓	✓	✓	✓
	ATLAS_tttt_13TeV_2023	✓	✓	✓	✓
	CMS_ttbb_13TeV	✓	✓	✓	✓
	CMS_ttbb_13TeV_2016	✓	✓	✓	✓
	CMS_ttbb_13TeV_dilepton_inc	✓	✓	✓	✓
	CMS_ttbb_13TeV_ljets_inc	✓	✓	✓	✓
	CMS_tttt_13TeV	✓	✓	✓	✓
	CMS_tttt_13TeV_run2	✓	✓	✓	✓
	CMS_tttt_13TeV_slep_inc	✓	✓	✓	✓
	CMS_tttt_13TeV_2023	✓	✓	✓	✓
CLIC	CLIC_zh_aa_380GeV		✓	✓	✓
	CLIC_zh_bb_380GeV		✓	✓	✓
	CLIC_zh_cc_380GeV		✓	✓	✓
	CLIC_zh_gg_380GeV		✓	✓	✓
	CLIC_zh_tautau_380GeV		✓	✓	✓
	CLIC_zh_ww_380GeV		✓	✓	✓
	CLIC_zh_xstot_380GeV		✓	✓	✓
	CLIC_zh_zz_380GeV		✓	✓	✓
	CLIC_vvh_aa_1500GeV			✓	✓
	CLIC_vvh_aa_3000GeV				✓
	CLIC_vvh_aa_380GeV		✓	✓	✓
	CLIC_vvh_bb_1500GeV			✓	✓
	CLIC_vvh_bb_3000GeV				✓
	CLIC_vvh_bb_380GeV		✓	✓	✓
	CLIC_vvh_cc_1500GeV			✓	✓
	CLIC_vvh_cc_3000GeV				✓
	CLIC_vvh_cc_380GeV		✓	✓	✓
	CLIC_vvh_gg_1500GeV			✓	✓
	CLIC_vvh_gg_3000GeV				✓
	CLIC_vvh_gg_380GeV		✓	✓	✓
	CLIC_vvh_tautau_1500GeV			✓	✓
	CLIC_vvh_tautau_3000GeV				✓
	CLIC_vvh_tautau_380GeV		✓	✓	✓
	CLIC_vvh_ww_1500GeV			✓	✓
	CLIC_vvh_ww_3000GeV				✓
	CLIC_vvh_ww_380GeV		✓	✓	✓
	CLIC_vvh_za_1500GeV			✓	✓
	CLIC_vvh_za_3000GeV				✓
	CLIC_vvh_zz_1500GeV			✓	✓
	CLIC_vvh_zz_3000GeV				✓
	CLIC_vvh_zz_380GeV		✓	✓	✓
	CLIC_bb_1500GeV			✓	✓
	CLIC_bb_3000GeV				✓
	CLIC_bb_380GeV		✓	✓	✓
	CLIC_bb_Afb_1500GeV			✓	✓
	CLIC_bb_Afb_3000GeV				✓
	CLIC_bb_Afb_380GeV		✓	✓	✓
	CLIC_cc_1500GeV			✓	✓
	CLIC_cc_3000GeV				✓
	CLIC_cc_380GeV		✓	✓	✓
	CLIC_cc_Afb_1500GeV			✓	✓
	CLIC_cc_Afb_3000GeV				✓
	CLIC_cc_Afb_380GeV		✓	✓	✓
	CLIC_ee_1500GeV			✓	✓
	CLIC_ee_3000GeV				✓
	CLIC_ee_380GeV		✓	✓	✓
	CLIC_ee_Afb_1500GeV			✓	✓
	CLIC_ee_Afb_3000GeV				✓
	CLIC_ee_Afb_380GeV		✓	✓	✓

	CLIC_mumu_1500GeV			✓	✓
	CLIC_mumu_3000GeV				✓
	CLIC_mumu_380GeV		✓	✓	✓
	CLIC_mumu_Afb_1500GeV			✓	✓
	CLIC_mumu_Afb_3000GeV				✓
	CLIC_mumu_Afb_380GeV		✓	✓	✓
	CLIC_tautau_1500GeV			✓	✓
	CLIC_tautau_3000GeV				✓
	CLIC_tautau_380GeV		✓	✓	✓
	CLIC_tautau_Afb_1500GeV			✓	✓
	CLIC_tautau_Afb_3000GeV				✓
	CLIC_tautau_Afb_380GeV		✓	✓	✓
	CLIC_Zdata_380GeV		✓	✓	✓
	CLIC_Brw_380GeV		✓	✓	✓
	CLIC_Brw_1500GeV			✓	✓
	CLIC_Brw_3000GeV				✓
	CLIC_ww_380GeV		✓	✓	✓
	CLIC_ww_1500GeV			✓	✓
	CLIC_ww_3000GeV				✓
HrunI	ATLAS_CMS_SSinc_RunI	✓	✓	✓	✓
	ATLAS_SSinc_RunII	✓	✓	✓	✓
	CMS_SSinc_RunII	✓	✓	✓	✓
	ATLAS_WH_Hbb_13TeV	✓	✓	✓	✓
	ATLAS_ZH_Hbb_13TeV	✓	✓	✓	✓
	ATLAS_ggF_13TeV_2015	✓	✓	✓	✓
	ATLAS_ggF_ZZ_13TeV	✓	✓	✓	✓
	CMS_H_13TeV_2015_pTH	✓	✓	✓	✓
	CMS_ggF_aa_13TeV	✓	✓	✓	✓
	ATLAS_STXS_runII_13TeV	✓	✓	✓	✓
LEP	LEP1_EWPOs_2006	✓	✓	✓	✓
	LEP_Bhabha_2013	✓	✓	✓	✓
	LEP_Brw_2013	✓	✓	✓	✓
	LEP_alphaEW	✓	✓	✓	✓
VV	ATLAS_WW_13TeV_2016_memu	✓	✓	✓	✓
	ATLAS_WZ_13TeV_2016_mTWZ	✓	✓	✓	✓
	CMS_WZ_13TeV_2016_pTZ	✓	✓	✓	✓
	CMS_WZ_13TeV_2022_pTZ	✓	✓	✓	✓
	LEP_eeWW_182GeV	✓	✓	✓	✓
	LEP_eeWW_189GeV	✓	✓	✓	✓
	LEP_eeWW_198GeV	✓	✓	✓	✓
	LEP_eeWW_206GeV	✓	✓	✓	✓
t8	ATLAS_t_sch_8TeV	✓	✓	✓	✓
	ATLAS_t_tch_8TeV_diff_Yt	✓	✓	✓	✓
	CMS_t_sch_8TeV	✓	✓	✓	✓
	CMS_t_tch_8TeV_diff_Yt	✓	✓	✓	✓
	CMS_t_tch_8TeV_inc	✓	✓	✓	✓
	ATLAS_t_sch_13TeV_inc	✓	✓	✓	✓
	ATLAS_t_tch_13TeV_inc	✓	✓	✓	✓
	CMS_t_tch_13TeV_2016_diff_Yt	✓	✓	✓	✓
	CMS_t_tch_13TeV_2019_diff_Yt	✓	✓	✓	✓
	CMS_t_tch_13TeV_inc	✓	✓	✓	✓
tW	ATLAS_tW_13TeV_inc	✓	✓	✓	✓
	ATLAS_tW_8TeV_inc	✓	✓	✓	✓
	ATLAS_tW_slep_8TeV_inc	✓	✓	✓	✓
	CMS_tW_13TeV_inc	✓	✓	✓	✓
	CMS_tW_13TeV_slep_inc	✓	✓	✓	✓
	CMS_tW_8TeV_inc	✓	✓	✓	✓
	ATLAS_tZ_13TeV_inc	✓	✓	✓	✓
	ATLAS_tZ_13TeV_run2_inc	✓	✓	✓	✓
	CMS_tZ_13TeV_2016_inc	✓	✓	✓	✓
	CMS_tZ_13TeV_inc	✓	✓	✓	✓
	CMS_tZ_13TeV_pTt	✓	✓	✓	✓
	ATLAS_tt_8TeV_dilep_Mtt	✓	✓	✓	✓

	ATLAS_tt_8TeV_ljets_Mtt	✓	✓	✓	✓
	CMS_tt2D_8TeV_dilep_MttYtt	✓	✓	✓	✓
	CMS_tt_8TeV_ljets_Ytt	✓	✓	✓	✓
	ATLAS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_inc	✓	✓	✓	✓
	ATLAS_WhelF_8TeV	✓	✓	✓	✓
	ATLAS_Whel_13TeV	✓	✓	✓	✓
	CMS_WhelF_8TeV	✓	✓	✓	✓
	ATLAS_CMS_tt_AC_8TeV	✓	✓	✓	✓
	ATLAS_tt_13TeV_asy_2022	✓	✓	✓	✓
	CMS_tt_13TeV_asy	✓	✓	✓	✓
ttV	ATLAS_ttZ_13TeV	✓	✓	✓	✓
	ATLAS_ttZ_13TeV_2016	✓	✓	✓	✓
	ATLAS_ttZ_13TeV_pTZ	✓	✓	✓	✓
	ATLAS_ttZ_8TeV	✓	✓	✓	✓
	CMS_ttZ_13TeV	✓	✓	✓	✓
	CMS_ttZ_13TeV_pTZ	✓	✓	✓	✓
	CMS_ttZ_8TeV	✓	✓	✓	✓
	ATLAS_ttW_13TeV	✓	✓	✓	✓
	ATLAS_ttW_13TeV_2016	✓	✓	✓	✓
	ATLAS_ttW_8TeV	✓	✓	✓	✓
	CMS_ttW_13TeV	✓	✓	✓	✓
	CMS_ttW_8TeV	✓	✓	✓	✓
tta	ATLAS_tta_8TeV	✓	✓	✓	✓
	CMS_tta_8TeV	✓	✓	✓	✓

Table 1: Dataset comparison
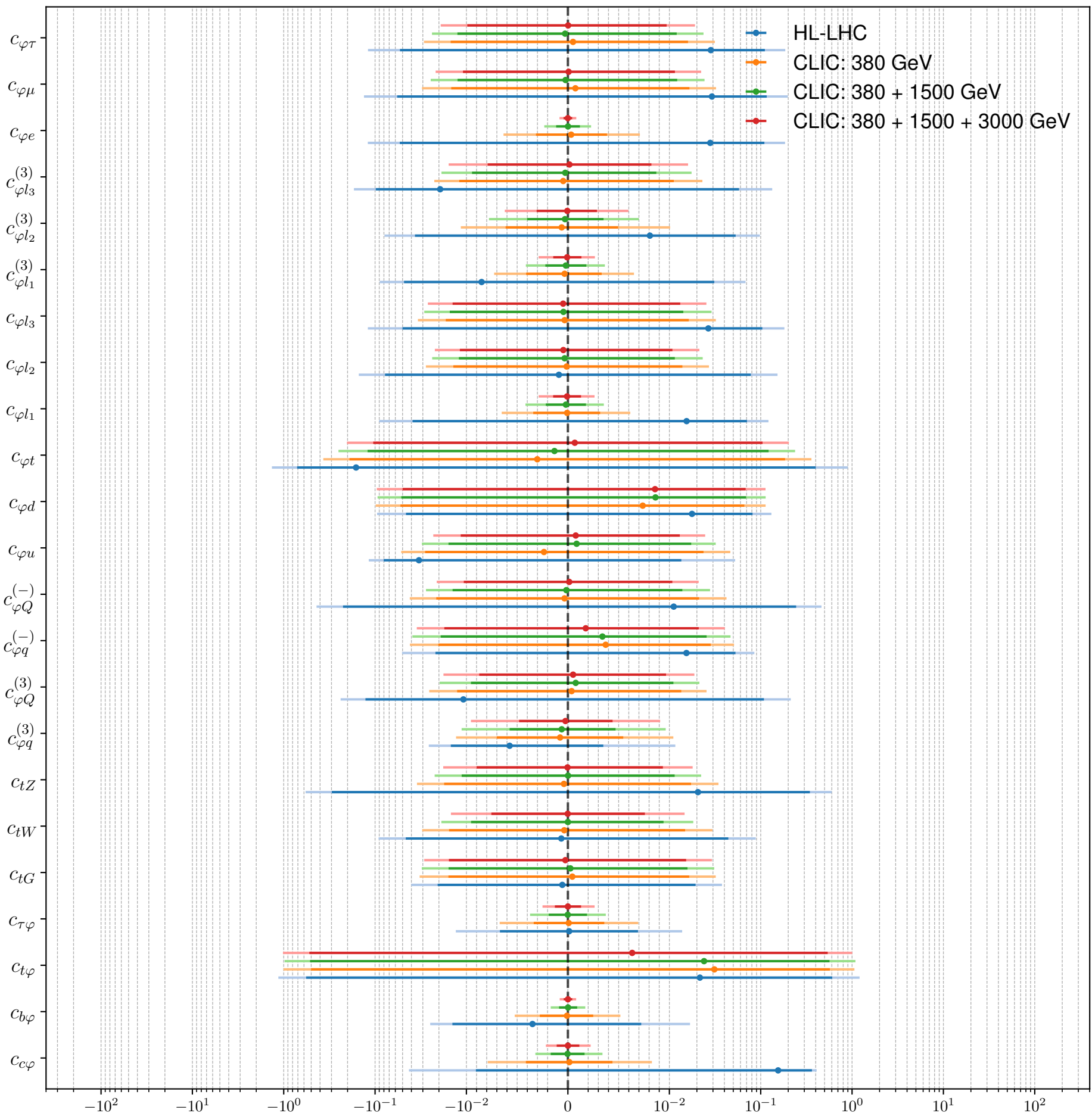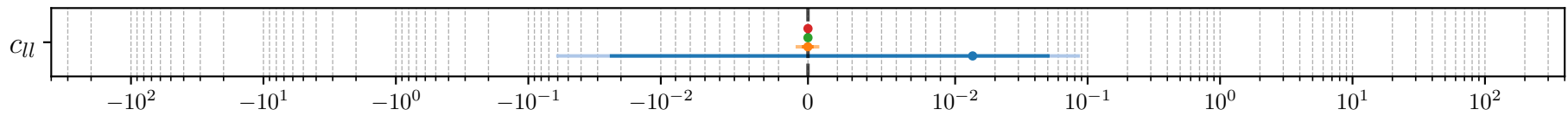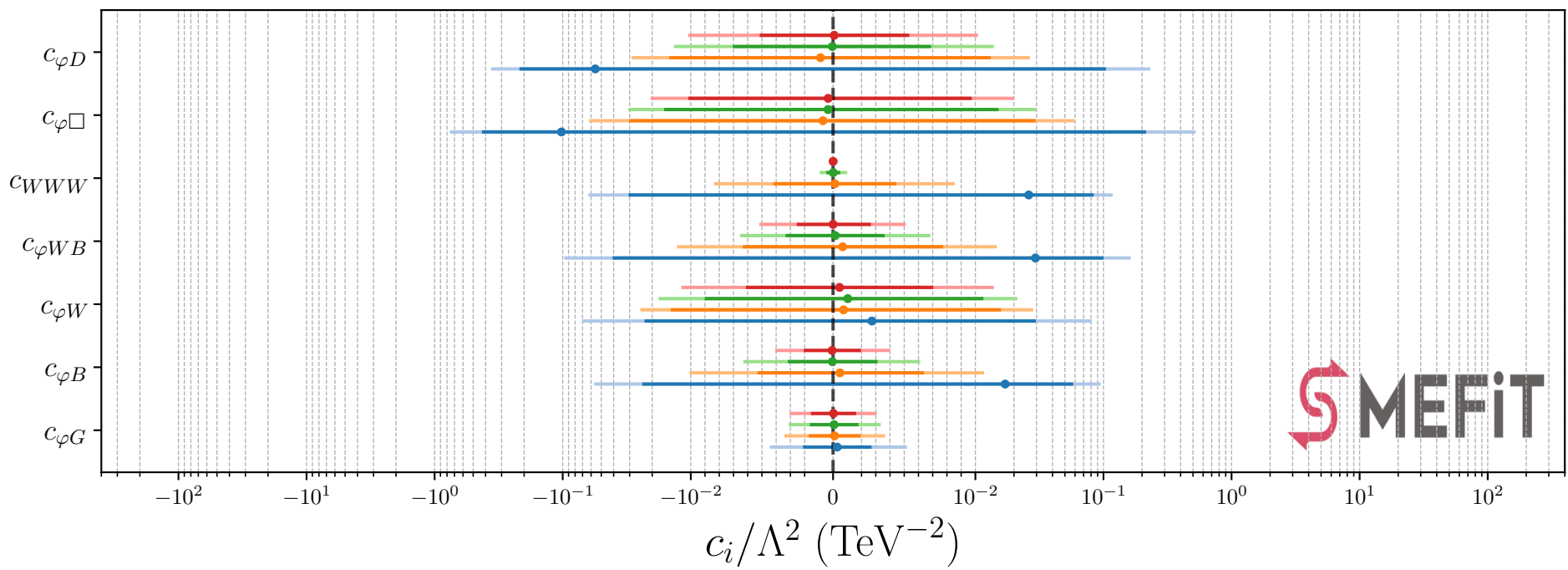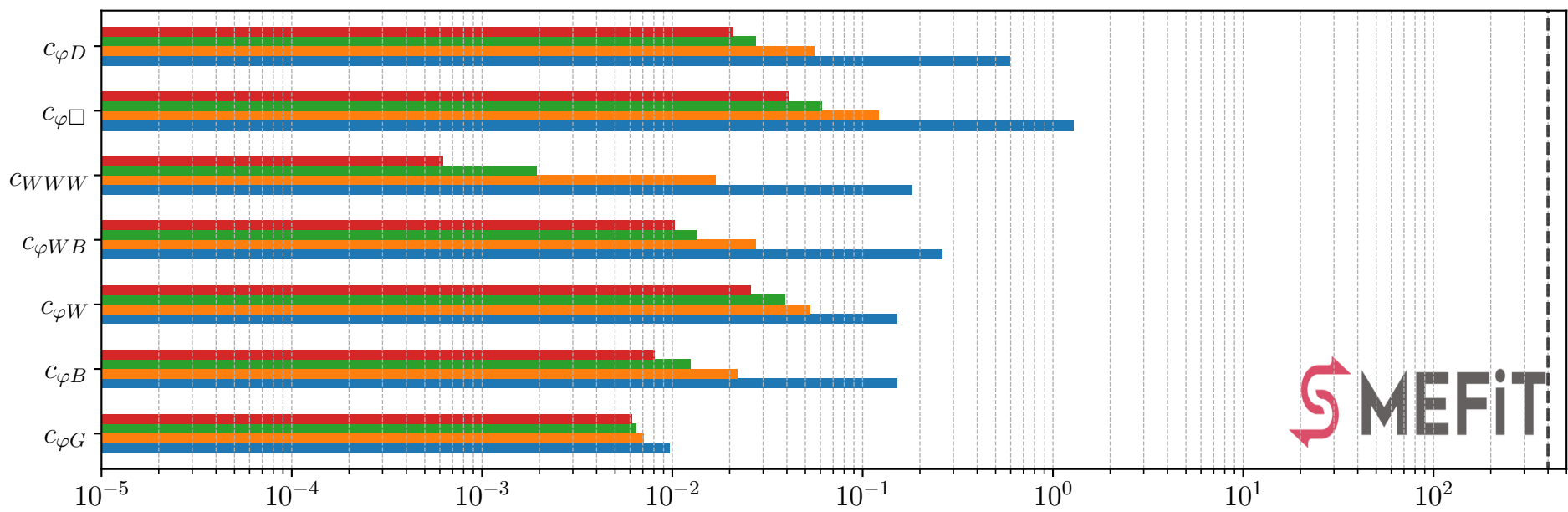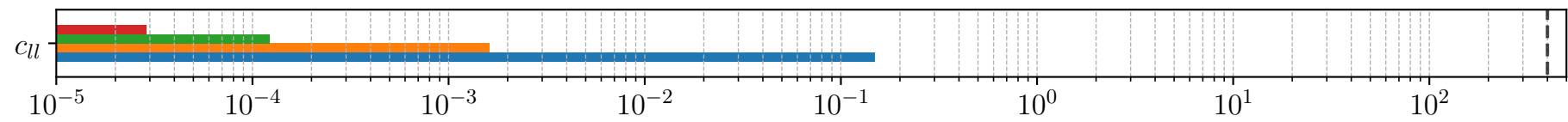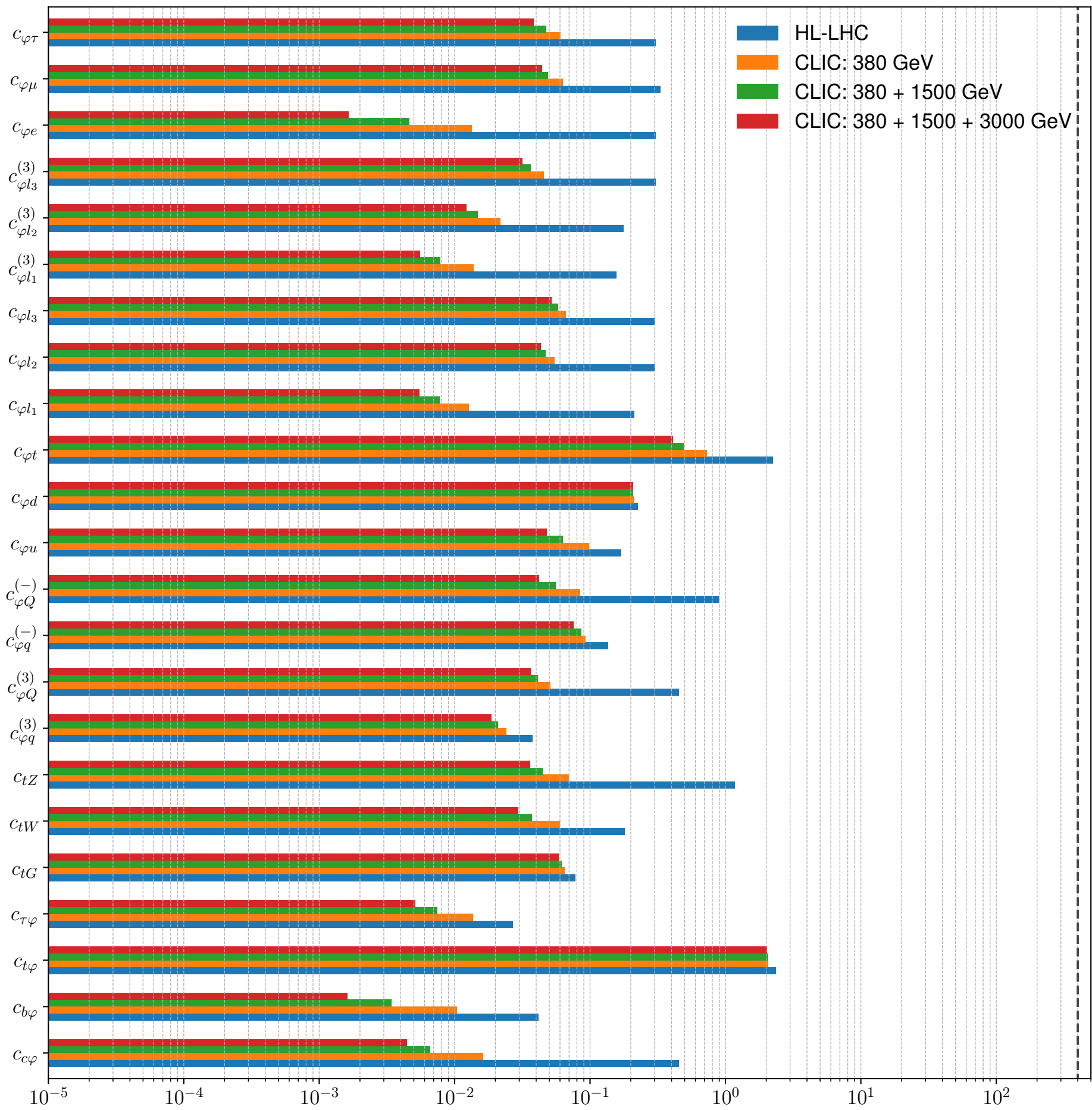
Ratio of Uncertainties to $HL - LHC$ Baseline, $\mathcal{O}\left(\Lambda^{-4}\right)$, Marginalised
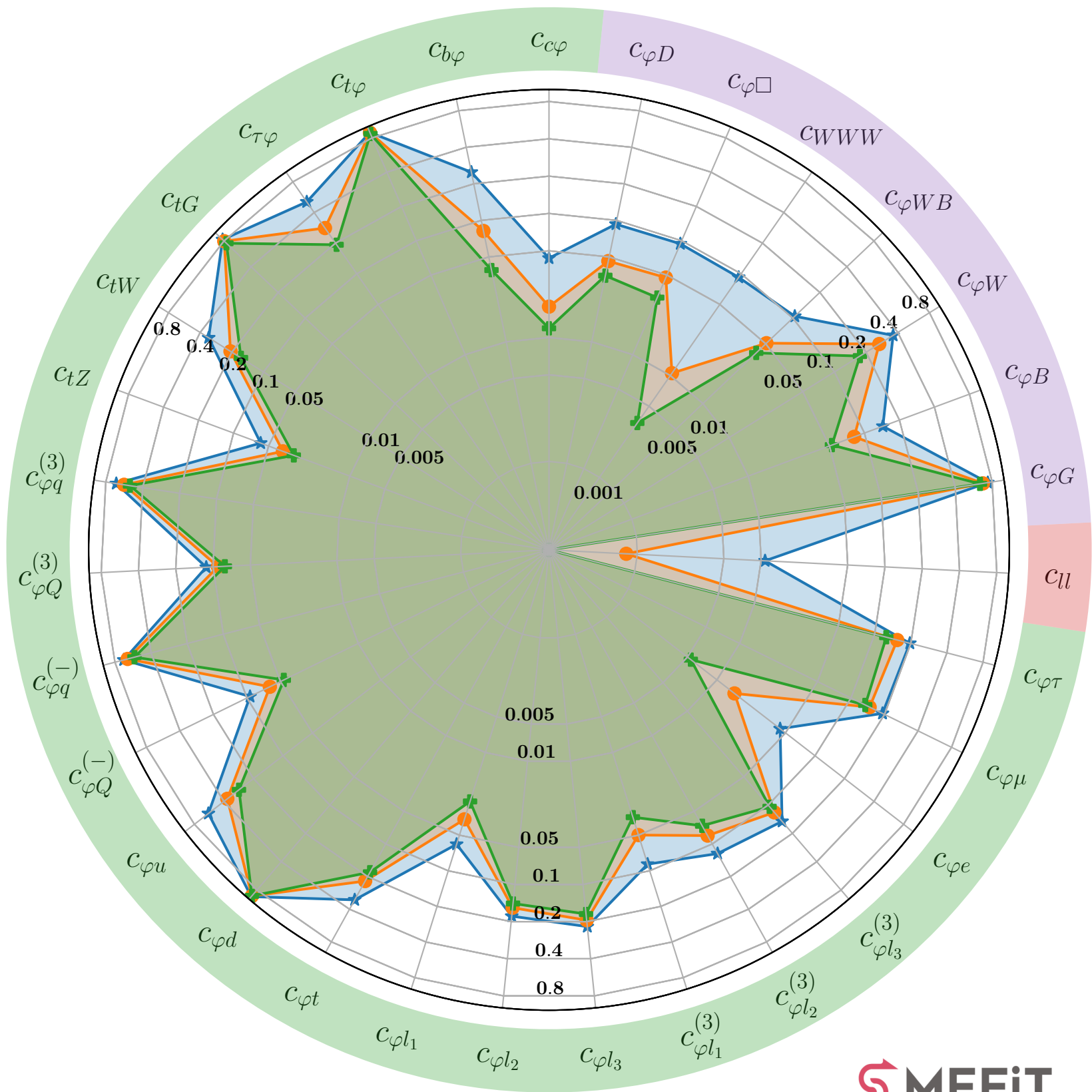
Legend:
- CLIC: 380 GeV
- CLIC: 380 + 1500 GeV
- CLIC: 380 + 1500 + 3000 GeV

SMEFiT
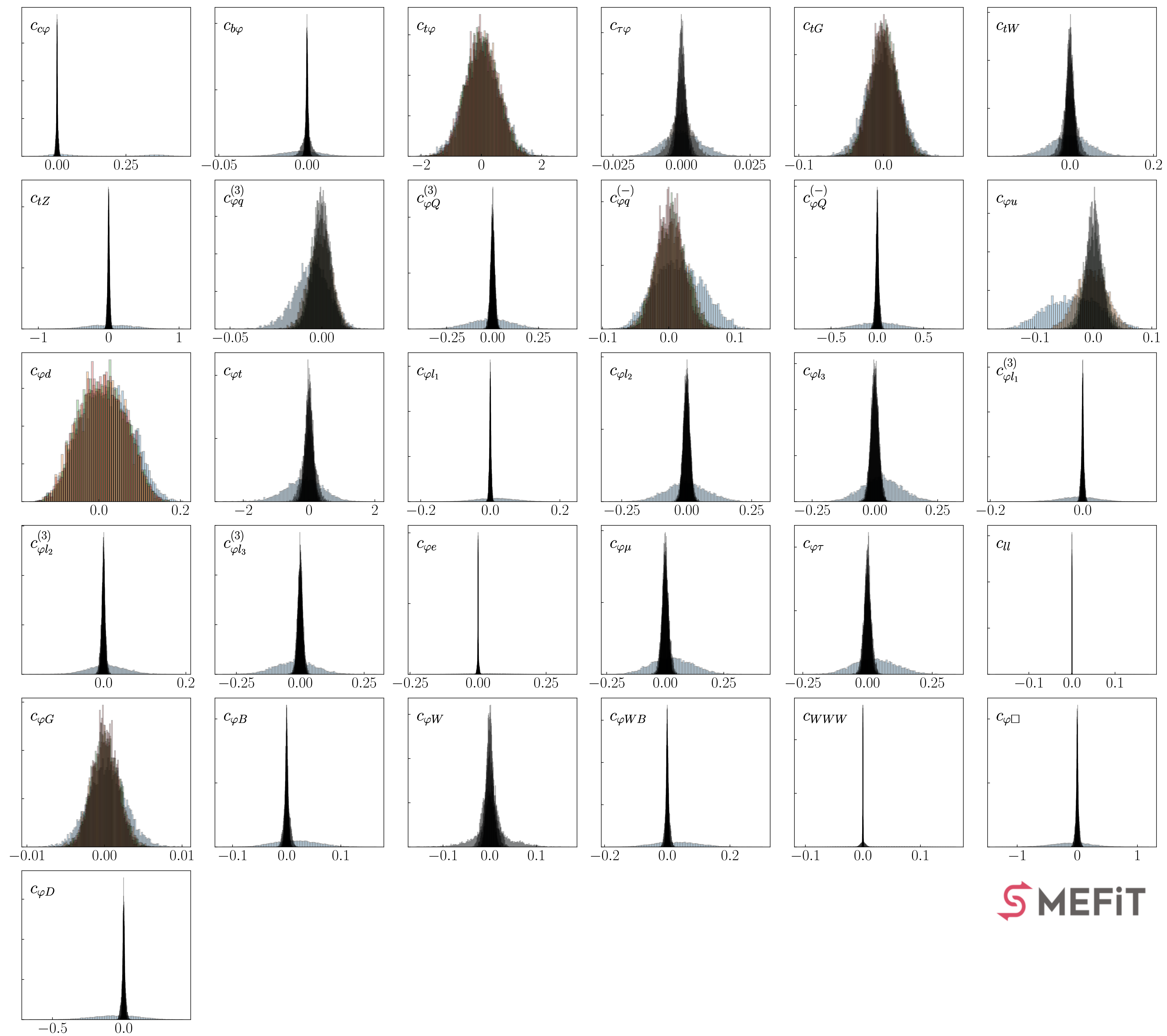
Class	Coefficients	HL-LHC			CLIC: 380 GeV			Cl	
		best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bounds	best	68%
2FB	$c_{c\varphi}$	0.155	[-0.009,0.363]	[-0.043,0.41]	0.0	[-0.004,0.004]	[-0.008,0.008]	-0.0	[-
	$c_{b\varphi}$	-0.003	[-0.014,0.007]	[-0.025,0.017]	-0.0	[-0.003,0.002]	[-0.005,0.005]	0.0	[-
	$c_{t\varphi}$	0.022	[-0.568,0.607]	[-1.144,1.208]	0.031	[-0.502,0.571]	[-1.008,1.062]	0.024	[-
	$c_{\tau\varphi}$	0.0	[-0.007,0.007]	[-0.013,0.014]	0.0	[-0.003,0.004]	[-0.007,0.007]	-0.0	[-
	c_{tG}	-0.001	[-0.021,0.019]	[-0.04,0.038]	0.0	[-0.016,0.016]	[-0.032,0.032]	0.0	[-
	c_{tW}	-0.001	[-0.046,0.044]	[-0.092,0.088]	-0.0	[-0.015,0.015]	[-0.031,0.03]	-0.0	[-
	c_{tZ}	0.021	[-0.298,0.345]	[-0.577,0.599]	-0.0	[-0.018,0.017]	[-0.035,0.034]	0.0	[-
	$c_{\varphi q}^{(3)}$	-0.006	[-0.015,0.003]	[-0.026,0.012]	-0.001	[-0.007,0.005]	[-0.013,0.011]	-0.001	[-
	$c_{\varphi Q}^{(3)}$	-0.011	[-0.127,0.108]	[-0.238,0.213]	0.0	[-0.013,0.013]	[-0.026,0.026]	0.001	[-
	$c_{\varphi q}^{(-)}$	0.015	[-0.022,0.053]	[-0.051,0.085]	0.004	[-0.02,0.028]	[-0.042,0.051]	0.003	[-
	$c_{\varphi Q}^{(-)}$	0.011	[-0.224,0.244]	[-0.437,0.463]	-0.0	[-0.021,0.021]	[-0.042,0.042]	-0.0	[-
	$c_{\varphi u}$	-0.033	[-0.081,0.014]	[-0.117,0.052]	-0.002	[-0.028,0.024]	[-0.052,0.046]	0.001	[-
	$c_{\varphi d}$	0.018	[-0.046,0.081]	[-0.095,0.131]	0.007	[-0.053,0.066]	[-0.098,0.113]	0.009	[-
	$c_{\varphi t}$	-0.161	[-0.713,0.4]	[-1.346,0.899]	-0.003	[-0.191,0.185]	[-0.369,0.359]	-0.001	[-
	$c_{\varphi l_1}$	0.015	[-0.039,0.071]	[-0.09,0.121]	-0.0	[-0.003,0.003]	[-0.007,0.006]	-0.0	[-
	$c_{\varphi l_2}$	-0.001	[-0.078,0.078]	[-0.151,0.153]	-0.0	[-0.014,0.014]	[-0.028,0.027]	-0.0	[-
	$c_{\varphi l_3}$	0.027	[-0.05,0.104]	[-0.12,0.182]	-0.0	[-0.017,0.016]	[-0.034,0.032]	-0.0	[-
	$c_{\varphi l_1}^{(3)}$	-0.009	[-0.048,0.031]	[-0.089,0.068]	-0.0	[-0.004,0.003]	[-0.007,0.007]	-0.0	[-
	$c_{\varphi l_2}^{(3)}$	0.008	[-0.037,0.053]	[-0.079,0.098]	-0.001	[-0.006,0.005]	[-0.012,0.01]	-0.0	[-
	$c_{\varphi l_3}^{(3)}$	-0.019	[-0.098,0.058]	[-0.17,0.134]	-0.0	[-0.012,0.011]	[-0.022,0.023]	-0.0	[-
	$c_{\varphi e}$	0.028	[-0.054,0.11]	[-0.12,0.185]	0.0	[-0.003,0.004]	[-0.006,0.007]	0.0	[-
	$c_{\varphi \mu}$	0.029	[-0.057,0.116]	[-0.132,0.198]	0.001	[-0.015,0.017]	[-0.031,0.032]	-0.0	[-
	$c_{\varphi \tau}$	0.028	[-0.053,0.111]	[-0.12,0.186]	0.001	[-0.015,0.016]	[-0.029,0.031]	-0.0	[-
4l	c_{ll}	0.014	[-0.024,0.052]	[-0.062,0.087]	-0.0	[-0.0,0.0]	[-0.001,0.001]	-0.0	
B	$c_{\varphi G}$	0.0	[-0.002,0.003]	[-0.004,0.005]	0.0	[-0.002,0.002]	[-0.003,0.004]	0.0	[-
	$c_{\varphi B}$	0.017	[-0.024,0.058]	[-0.057,0.095]	0.0	[-0.005,0.006]	[-0.01,0.012]	-0.0	[-
	$c_{\varphi W}$	0.003	[-0.023,0.03]	[-0.071,0.081]	0.001	[-0.014,0.016]	[-0.025,0.028]	0.001	[-
	$c_{\varphi WB}$	0.029	[-0.041,0.1]	[-0.097,0.163]	0.001	[-0.006,0.008]	[-0.013,0.015]	0.0	[-
	c_{WWW}	0.026	[-0.031,0.084]	[-0.063,0.118]	0.0	[-0.004,0.004]	[-0.008,0.009]	0.0	[-
	$c_{\varphi \Box}$	-0.102	[-0.427,0.215]	[-0.761,0.525]	-0.001	[-0.03,0.03]	[-0.062,0.06]	-0.0	[-
	$c_{\varphi D}$	-0.056	[-0.217,0.105]	[-0.363,0.232]	-0.001	[-0.015,0.013]	[-0.029,0.027]	-0.0	[-

Table 1: Coefficient comparison