

		HL-LHC		FCC-ee		CLIC		ILC	
Class	Coefficients	Fitted	Fixed	Fitted	Fixed	Fitted	Fixed	Fitted	Fixed
2FB	$c_{c\varphi}$	✓		✓		✓		✓	
	$c_{b\varphi}$	✓		✓		✓		✓	
	$c_{t\varphi}$	✓		✓		✓		✓	
	$c_{\tau\varphi}$	✓		✓		✓		✓	
	$c_{tG}$	✓		✓		✓		✓	
	$c_{tW}$	✓		✓		✓		✓	
	$c_{tZ}$	✓		✓		✓		✓	
	$c_{\varphi q}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi Q}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi q}^{(-)}$	✓		✓		✓		✓	
	$c_{\varphi Q}^{(-)}$	✓		✓		✓		✓	
	$c_{\varphi u}$	✓		✓		✓		✓	
	$c_{\varphi d}$	✓		✓		✓		✓	
	$c_{\varphi t}$	✓		✓		✓		✓	
	$c_{\varphi l_1}$	✓		✓		✓		✓	
	$c_{\varphi l_2}$	✓		✓		✓		✓	
	$c_{\varphi l_3}$	✓		✓		✓		✓	
	$c_{\varphi l_1}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi l_2}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi l_3}^{(3)}$	✓		✓		✓		✓	
	$c_{\varphi e}$	✓		✓		✓		✓	
	$c_{\varphi \mu}$	✓		✓		✓		✓	
	$c_{\varphi \tau}$	✓		✓		✓		✓	
2L2H	$c_{1,8}^{Qq}$	✓		✓		✓		✓	
	$c_{1,1}^{Qq}$	✓		✓		✓		✓	
	$c_{3,8}^{Qq}$	✓		✓		✓		✓	
	$c_{3,1}^{Qq}$	✓		✓		✓		✓	
	$c_{8}^{tq}$	✓		✓		✓		✓	
	$c_{1}^{tq}$	✓		✓		✓		✓	
	$c_{8}^{tu}$	✓		✓		✓		✓	
	$c_{1}^{tu}$	✓		✓		✓		✓	
	$c_{8}^{Qu}$	✓		✓		✓		✓	
	$c_{1}^{Qu}$	✓		✓		✓		✓	
	$c_{8}^{td}$	✓		✓		✓		✓	
	$c_{1}^{td}$	✓		✓		✓		✓	
	$c_{8}^{Qd}$	✓		✓		✓		✓	
	$c_{1}^{Qd}$	✓		✓		✓		✓	
4l	$c_{ll}$	✓		✓		✓		✓	
B	$c_{\varphi G}$	✓		✓		✓		✓	
	$c_{\varphi B}$	✓		✓		✓		✓	
	$c_{\varphi W}$	✓		✓		✓		✓	
	$c_{\varphi WB}$	✓		✓		✓		✓	
	$c_{WWW}$	✓		✓		✓		✓	
	$c_{\varphi \square}$	✓		✓		✓		✓	
	$c_{\varphi D}$	✓		✓		✓		✓	
	Number fitted coefficients	45		45		45		45	

Table 1: Coefficient comparison

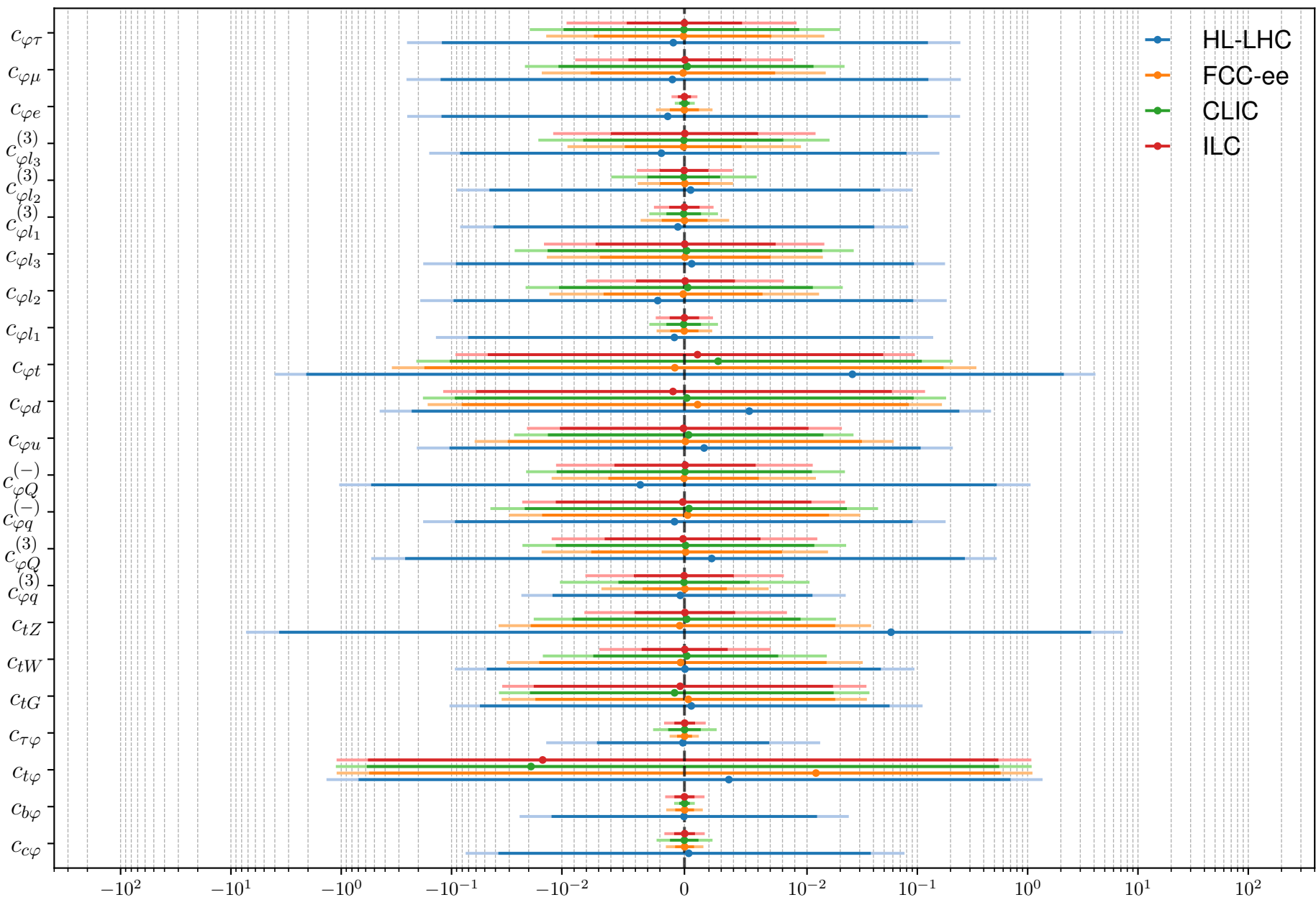
Type	Datasets	HL-LHC	FCC-ee	CLIC	ILC
4H	ATLAS_ttbb_13TeV_2016	✓	✓	✓	✓
	ATLAS_tttt_13TeV_run2	✓	✓	✓	✓
	ATLAS_tttt_13TeV_slep_inc	✓	✓	✓	✓
	ATLAS_tttt_13TeV_2023	✓	✓	✓	✓
	CMS_ttbb_13TeV	✓	✓	✓	✓
	CMS_ttbb_13TeV_2016	✓	✓	✓	✓
	CMS_ttbb_13TeV_dilepton_inc	✓	✓	✓	✓
	CMS_ttbb_13TeV_ljets_inc	✓	✓	✓	✓
	CMS_tttt_13TeV	✓	✓	✓	✓
	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_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	✓	✓	✓	✓

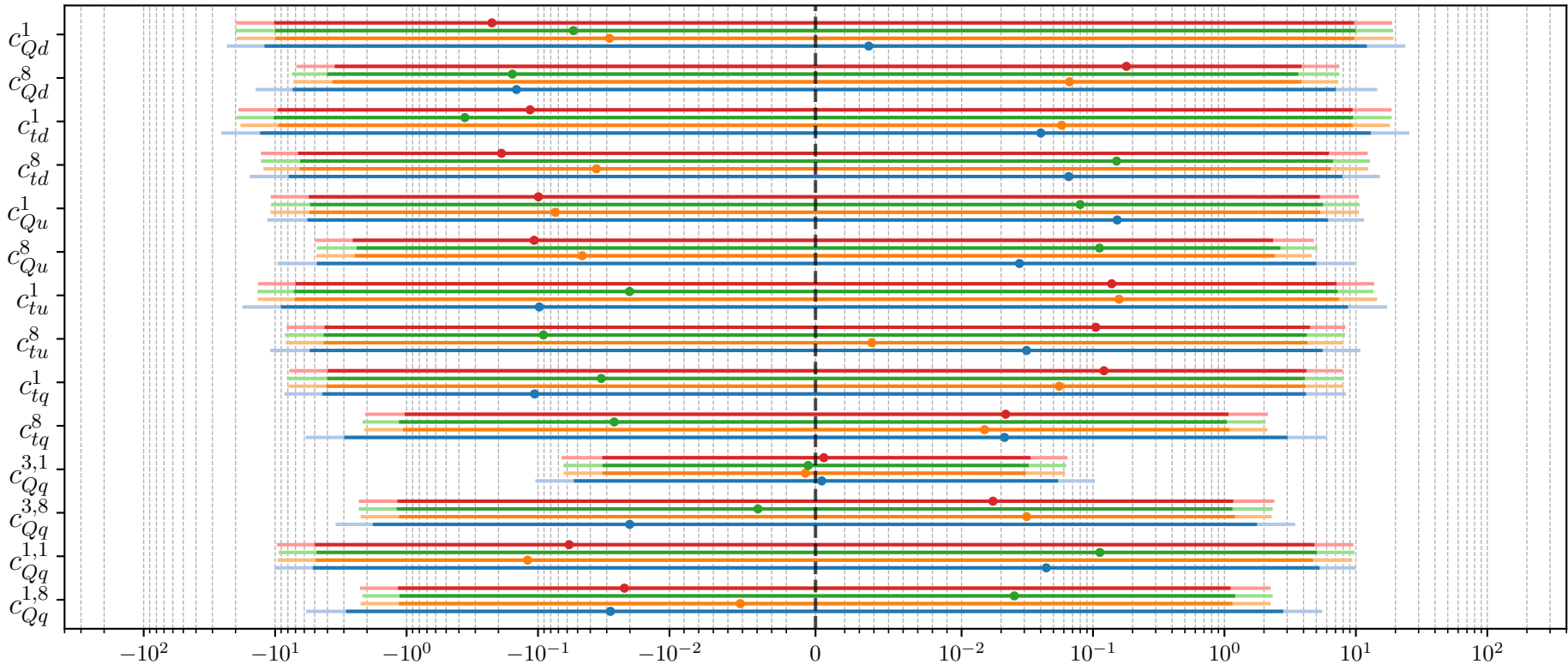
	ATLAS_tt_8TeV_ljets_Mtt	✓	✓	✓	✓
	CMS_tt2D_8TeV_dilep_MttYtt	✓	✓	✓	✓
	CMS_tt_8TeV_ljets_Ytt	✓	✓	✓	✓
	ATLAS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_inc	✓	✓	✓	✓
	ATLAS_WhelF_8TeV	✓	✓	✓	✓
	ATLAS_WhelF_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

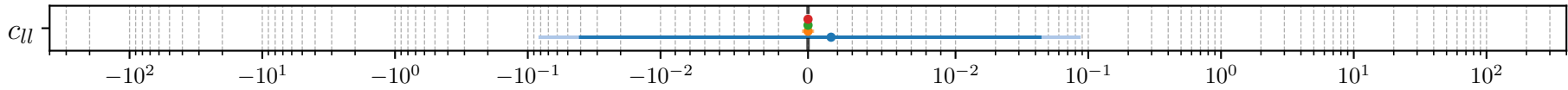
2FB



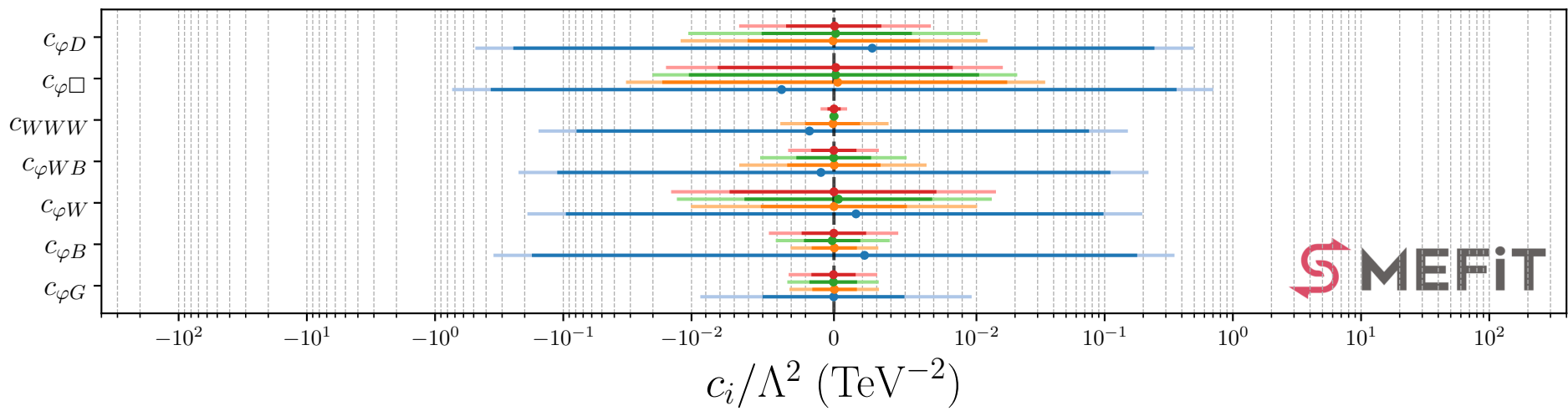
2L2H



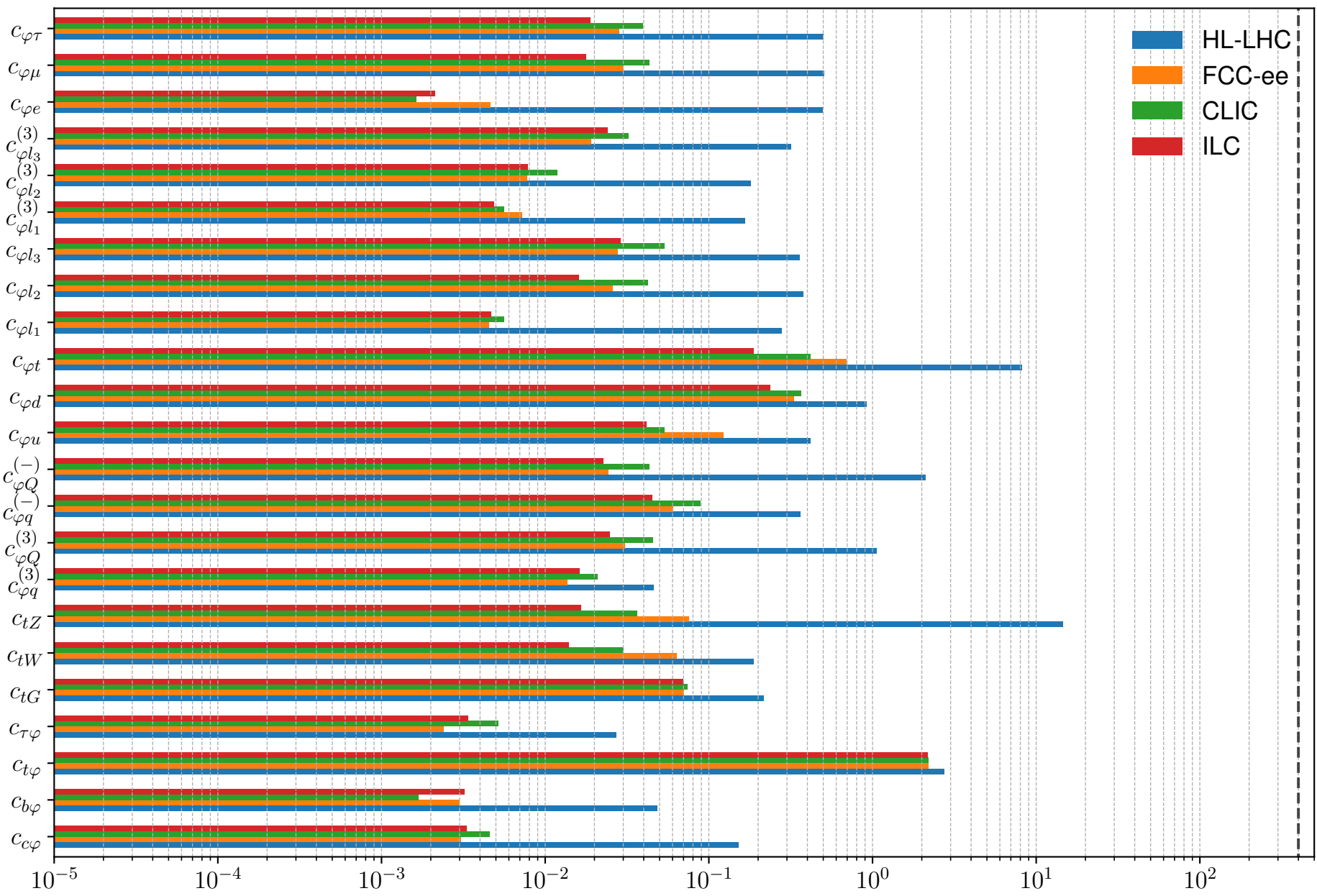
4l



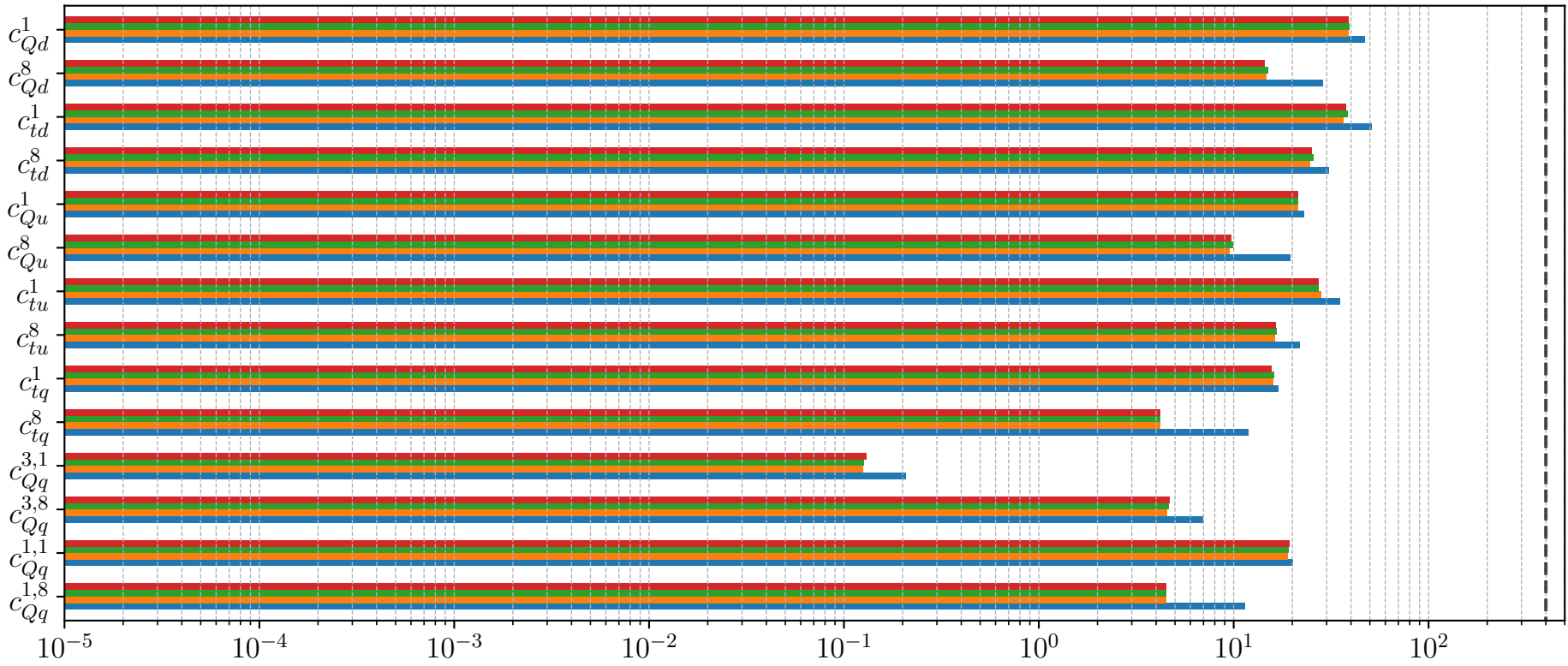
B



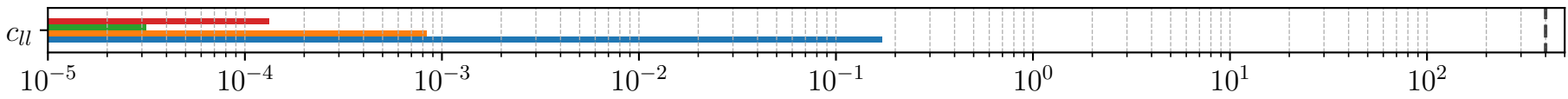
2FB



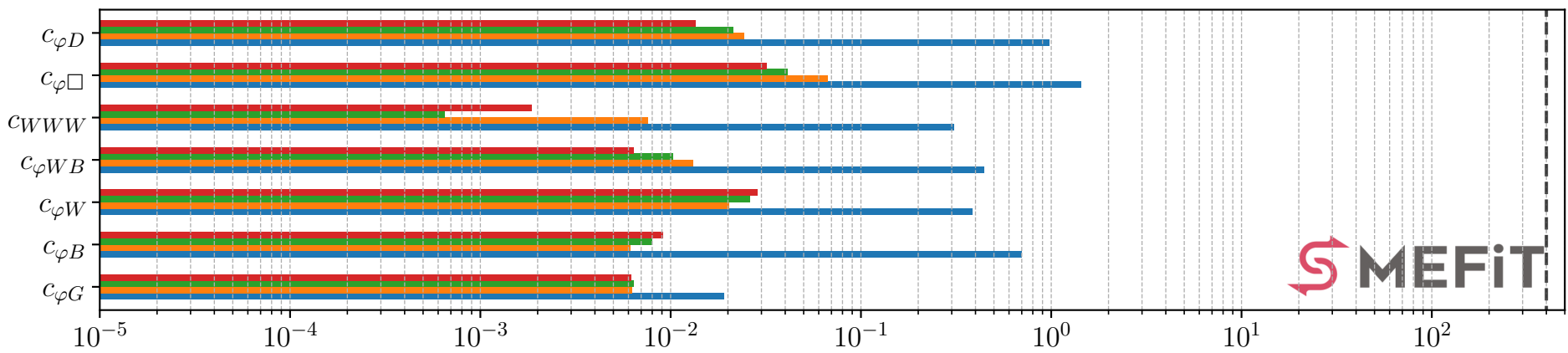
2L2H



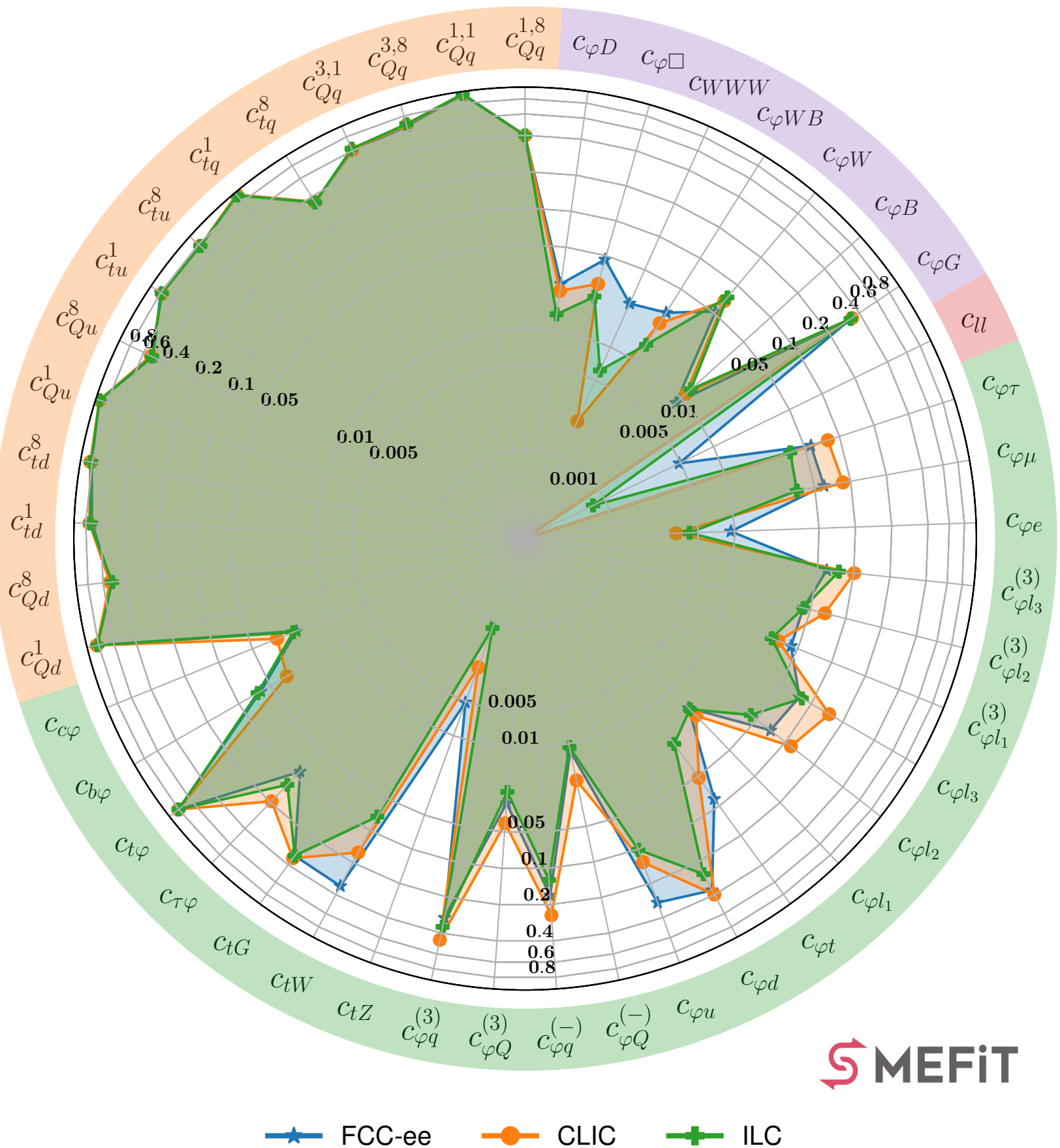
4l



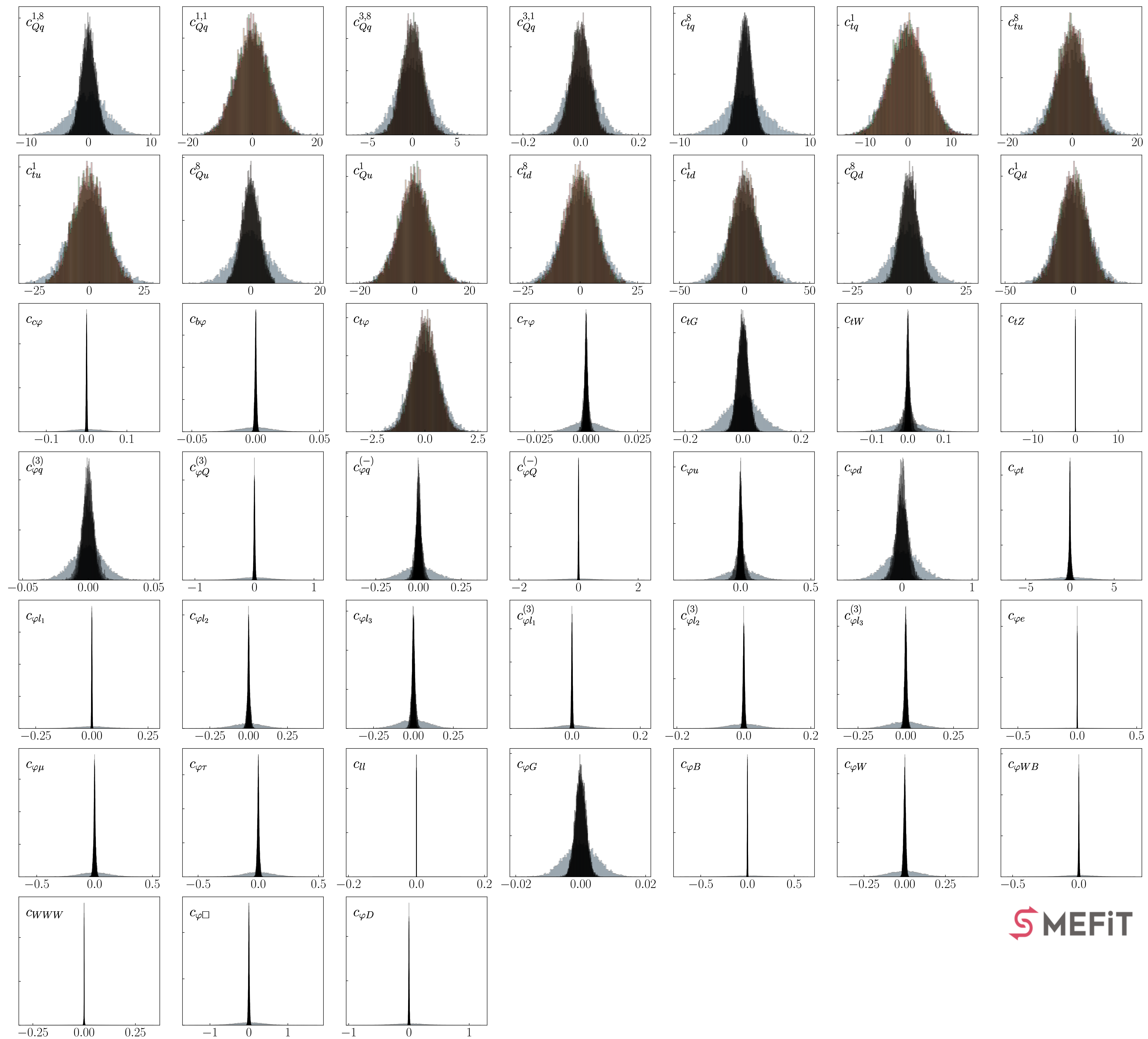
B

95% Confidence Level Bounds (1/TeV<sup>2</sup>)

Ratio of Uncertainties to HL – LHC Baseline,  $\mathcal{O}(\Lambda^{-2})$ , Marginalised



HL-LHC FCC-ee CLIC ILC





		HL-LHC			FCC-ee				
Class	Coefficients	best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bounds	best	68%
2FB	$c_{c\varphi}$	0.0	[-0.038,0.038]	[-0.075,0.076]	0.0	[-0.001,0.001]	[-0.002,0.002]	-0.0	[-0.002,0.002]
	$c_{b\varphi}$	-0.0	[-0.012,0.012]	[-0.024,0.024]	0.0	[-0.001,0.001]	[-0.001,0.001]	0.0	[-0.001,0.001]
	$c_{t\varphi}$	0.004	[-0.697,0.699]	[-1.36,1.365]	0.012	[-0.558,0.569]	[-1.1,1.106]	-0.019	[-0.019,0.019]
	$c_{\tau\varphi}$	-0.0	[-0.007,0.007]	[-0.014,0.013]	0.0	[-0.001,0.001]	[-0.001,0.001]	0.0	[-0.001,0.001]
	$c_{tG}$	0.001	[-0.055,0.056]	[-0.104,0.112]	0.0	[-0.017,0.018]	[-0.035,0.035]	-0.001	[-0.001,0.001]
	$c_{tW}$	0.0	[-0.048,0.047]	[-0.093,0.094]	-0.0	[-0.016,0.015]	[-0.032,0.032]	0.0	[-0.001,0.001]
	$c_{tZ}$	0.058	[-3.654,3.762]	[-7.294,7.326]	-0.0	[-0.019,0.018]	[-0.037,0.038]	0.0	[-0.001,0.001]
	$c_{\varphi q}^{(3)}$	-0.0	[-0.012,0.011]	[-0.023,0.022]	0.0	[-0.003,0.003]	[-0.007,0.007]	-0.0	[-0.001,0.001]
	$c_{\varphi Q}^{(3)}$	0.002	[-0.264,0.27]	[-0.534,0.525]	0.0	[-0.008,0.008]	[-0.015,0.016]	0.0	[-0.001,0.001]
	$c_{\varphi q}^{(-)}$	-0.001	[-0.093,0.091]	[-0.181,0.18]	0.0	[-0.015,0.016]	[-0.03,0.03]	0.0	[-0.001,0.001]
	$c_{\varphi Q}^{(-)}$	-0.004	[-0.535,0.524]	[-1.044,1.063]	-0.0	[-0.006,0.006]	[-0.012,0.012]	0.0	[-0.001,0.001]
	$c_{\varphi u}$	0.002	[-0.104,0.107]	[-0.207,0.21]	0.0	[-0.031,0.031]	[-0.062,0.061]	0.0	[-0.001,0.001]
	$c_{\varphi d}$	0.005	[-0.23,0.24]	[-0.448,0.466]	0.001	[-0.081,0.084]	[-0.165,0.167]	0.0	[-0.001,0.001]
	$c_{\varphi t}$	0.026	[-2.075,2.127]	[-4.021,4.119]	-0.001	[-0.176,0.173]	[-0.348,0.343]	0.003	[-0.001,0.001]
	$c_{\varphi l_1}$	-0.001	[-0.071,0.069]	[-0.139,0.139]	-0.0	[-0.001,0.001]	[-0.002,0.002]	-0.0	[-0.001,0.001]
	$c_{\varphi l_2}$	-0.002	[-0.096,0.092]	[-0.192,0.185]	-0.0	[-0.007,0.006]	[-0.013,0.013]	0.0	[-0.001,0.001]
	$c_{\varphi l_3}$	0.001	[-0.091,0.093]	[-0.181,0.178]	0.0	[-0.007,0.007]	[-0.014,0.014]	0.0	[-0.001,0.001]
	$c_{\varphi l_1}^{(3)}$	-0.001	[-0.042,0.041]	[-0.084,0.083]	0.0	[-0.002,0.002]	[-0.004,0.004]	-0.0	[-0.001,0.001]
	$c_{\varphi l_2}^{(3)}$	0.001	[-0.045,0.046]	[-0.089,0.09]	0.0	[-0.002,0.002]	[-0.004,0.004]	-0.0	[-0.001,0.001]
	$c_{\varphi l_3}^{(3)}$	-0.002	[-0.084,0.08]	[-0.159,0.159]	-0.0	[-0.005,0.005]	[-0.01,0.01]	-0.0	[-0.001,0.001]
2L2H	$c_{\varphi e}$	-0.001	[-0.123,0.124]	[-0.252,0.244]	-0.0	[-0.001,0.001]	[-0.002,0.002]	0.0	[-0.001,0.001]
	$c_{\varphi \mu}$	-0.001	[-0.126,0.126]	[-0.256,0.248]	-0.0	[-0.008,0.007]	[-0.015,0.015]	0.0	[-0.001,0.001]
	$c_{\varphi \tau}$	-0.001	[-0.122,0.125]	[-0.253,0.245]	-0.0	[-0.007,0.007]	[-0.014,0.014]	-0.0	[-0.001,0.001]
	$c_{Qq}^{1,8}$	-0.028	[-2.887,2.799]	[-5.822,5.546]	-0.005	[-1.146,1.151]	[-2.237,2.248]	0.025	[-0.001,0.001]
	$c_{Qq}^{1,1}$	0.044	[-5.169,5.298]	[-10.113,9.988]	-0.12	[-4.923,4.721]	[-9.596,9.409]	0.113	[-0.001,0.001]
	$c_{Qq}^{3,8}$	-0.02	[-1.805,1.767]	[-3.471,3.458]	0.031	[-1.14,1.202]	[-2.233,2.295]	-0.004	[-0.001,0.001]
	$c_{Qq}^{3,1}$	0.0	[-0.053,0.054]	[-0.105,0.103]	-0.001	[-0.032,0.031]	[-0.064,0.061]	-0.001	[-0.001,0.001]
	$c_{tq}^8$	0.021	[-2.985,3.025]	[-5.867,6.045]	0.015	[-1.066,1.096]	[-2.092,2.123]	-0.026	[-0.001,0.001]
	$c_{tq}^1$	-0.106	[-4.373,4.166]	[-8.495,8.361]	0.055	[-4.077,4.137]	[-7.916,8.011]	-0.033	[-0.001,0.001]
	$c_{tu}^8$	0.031	[-5.447,5.57]	[-10.908,10.836]	0.004	[-4.256,4.274]	[-8.299,8.007]	-0.091	[-0.001,0.001]
	$c_{tu}^1$	-0.098	[-9.04,8.693]	[-17.74,17.306]	0.158	[-7.083,7.411]	[-13.566,14.517]	-0.02	[-0.001,0.001]
	$c_{Qu}^8$	0.028	[-4.807,5.01]	[-9.63,9.793]	-0.046	[-2.474,2.42]	[-4.856,4.62]	0.112	[-0.001,0.001]
	$c_{Qu}^1$	0.153	[-5.688,6.147]	[-11.499,11.549]	-0.074	[-5.487,5.35]	[-10.842,10.55]	0.08	[-0.001,0.001]
	$c_{td}^8$	0.065	[-7.901,7.906]	[-15.622,15.214]	-0.036	[-6.513,6.437]	[-12.265,12.43]	0.151	[-0.001,0.001]
	$c_{td}^1$	0.04	[-12.985,13.02]	[-25.69,25.525]	0.058	[-9.465,9.443]	[-18.338,18.183]	-0.361	[-0.001,0.001]
B	$c_{Qd}^8$	-0.146	[-7.356,7.03]	[-14.044,14.567]	0.066	[-3.665,3.843]	[-7.278,7.381]	-0.157	[-0.001,0.001]
	$c_{Qd}^1$	0.004	[-12.054,12.115]	[-23.296,23.814]	-0.029	[-9.981,9.728]	[-19.584,19.309]	-0.054	[-0.001,0.001]
	$c_{ll}$	0.002	[-0.041,0.044]	[-0.083,0.088]	0.0	[-0.0,0.0]	[-0.0,0.0]	0.0	[-0.001,0.001]
	$c_{\varphi G}$	-0.0	[-0.005,0.005]	[-0.009,0.01]	0.0	[-0.002,0.002]	[-0.003,0.003]	-0.0	[-0.001,0.001]
	$c_{\varphi B}$	0.002	[-0.176,0.179]	[-0.35,0.351]	0.0	[-0.002,0.002]	[-0.003,0.003]	-0.0	[-0.001,0.001]
	$c_{\varphi W}$	0.002	[-0.095,0.098]	[-0.191,0.197]	0.0	[-0.005,0.005]	[-0.01,0.01]	0.0	[-0.001,0.001]
	$c_{\varphi WB}$	-0.001	[-0.111,0.111]	[-0.223,0.22]	0.0	[-0.003,0.003]	[-0.007,0.006]	-0.0	[-0.001,0.001]
4l	$c_{WWW}$	-0.002	[-0.079,0.076]	[-0.156,0.152]	-0.0	[-0.002,0.002]	[-0.004,0.004]	-0.0	[-0.001,0.001]
	$c_{\varphi \square}$	-0.004	[-0.368,0.364]	[-0.736,0.704]	0.0	[-0.017,0.017]	[-0.032,0.034]	0.0	[-0.001,0.001]
	$c_{\varphi D}$	0.003	[-0.245,0.245]	[-0.485,0.497]	-0.0	[-0.006,0.006]	[-0.012,0.012]	0.0	[-0.001,0.001]

Table 1: Coefficient comparison