

		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}^{Qq}	✓		✓		✓		✓	
	c_{1}^{tq}	✓		✓		✓		✓	
	c_{8}^{tq}	✓		✓		✓		✓	
	c_{1}^{tu}	✓		✓		✓		✓	
	c_{8}^{tu}	✓		✓		✓		✓	
	c_{1}^{Qu}	✓		✓		✓		✓	
	c_{8}^{Qu}	✓		✓		✓		✓	
	c_{1}^{td}	✓		✓		✓		✓	
	c_{8}^{td}	✓		✓		✓		✓	
	c_{1}^{Qd}	✓		✓		✓		✓	
	c_{8}^{Qd}	✓		✓		✓		✓	
4H	$c_{1,8}^{QQ}$	✓		✓		✓		✓	
	$c_{1,1}^{QQ}$	✓		✓		✓		✓	
	$c_{1,8}^{Qt}$	✓		✓		✓		✓	
	$c_{1,1}^{Qt}$	✓		✓		✓		✓	
	$c_{1,8}^{tt}$	✓		✓		✓		✓	
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	50		50		50		50	

Table 1: Coefficient comparison

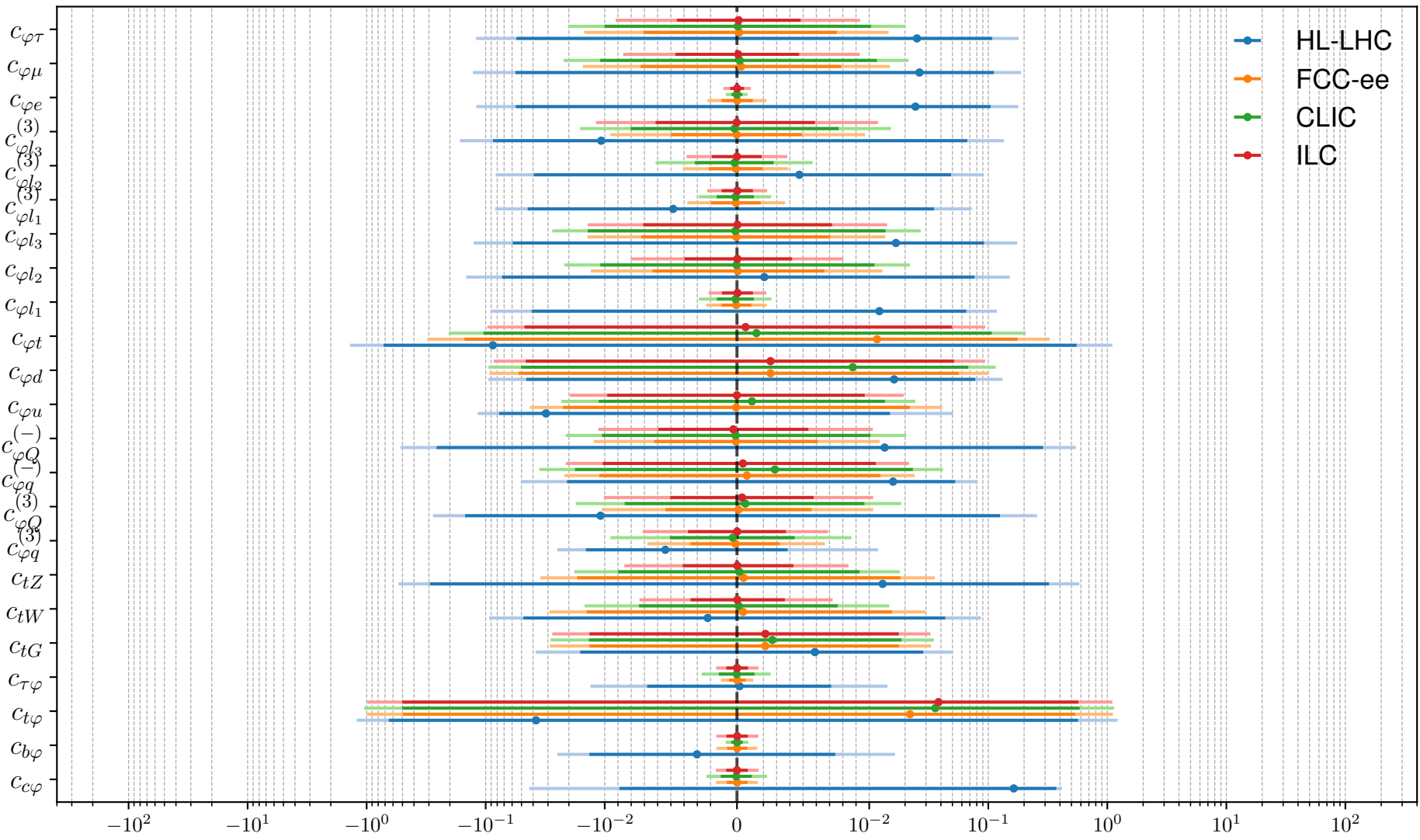
Type	Datasets	HL-LHC	FCC-ee	CLIC	ILC
4H	ATLAS_ttbb_13TeV_2016	✓	✓	✓	✓
	ATLAS_tttt_13TeV_run2	✓	✓	✓	✓
	ATLAS_tttt_13TeV_slep_inc	✓	✓	✓	✓
	ATLAS_tttt_13TeV_2023	✓	✓	✓	✓
	CMS_ttbb_13TeV	✓	✓	✓	✓
	CMS_ttbb_13TeV_2016	✓	✓	✓	✓
	CMS_ttbb_13TeV_dilepton_inc	✓	✓	✓	✓
	CMS_ttbb_13TeV_ljets_inc	✓	✓	✓	✓
	CMS_tttt_13TeV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

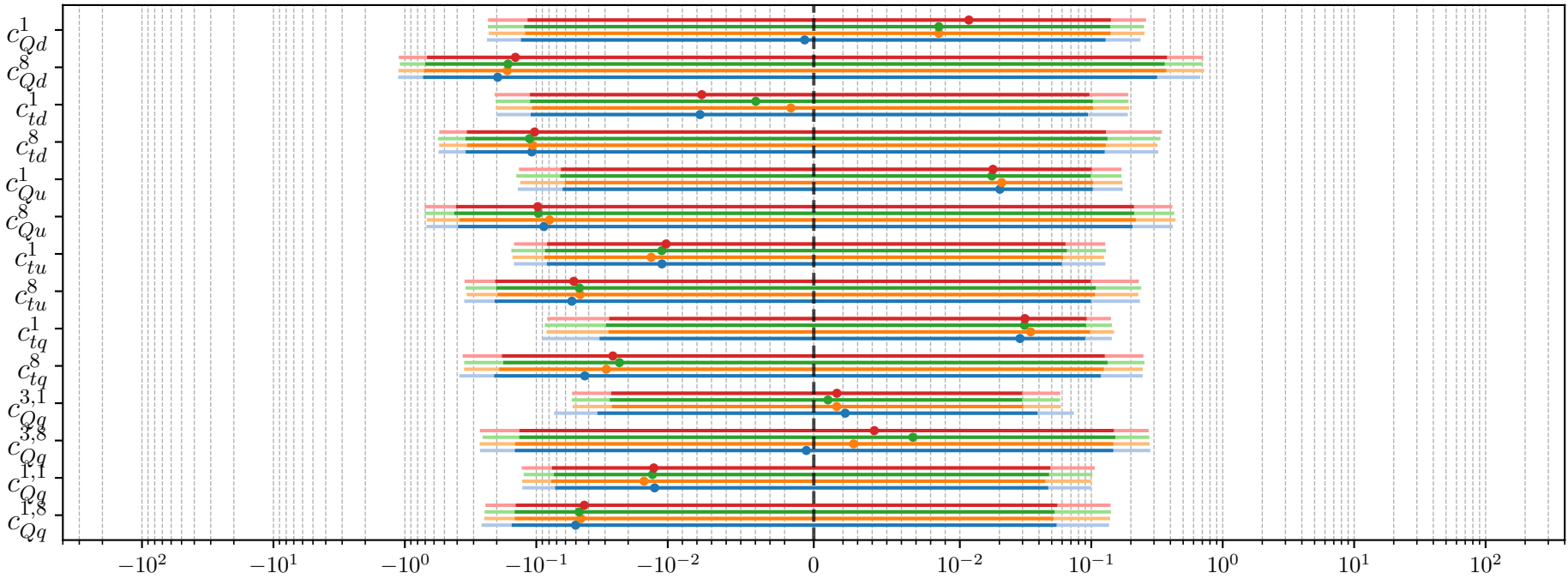
	ATLAS_tt_8TeV_ljets_Mtt	✓	✓	✓	✓
	CMS_tt2D_8TeV_dilep_MttYtt	✓	✓	✓	✓
	CMS_tt_8TeV_ljets_Ytt	✓	✓	✓	✓
	ATLAS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_dilep_2016_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2015_Mtt	✓	✓	✓	✓
	CMS_tt_13TeV_ljets_2016_Mtt	✓	✓	✓	✓
	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

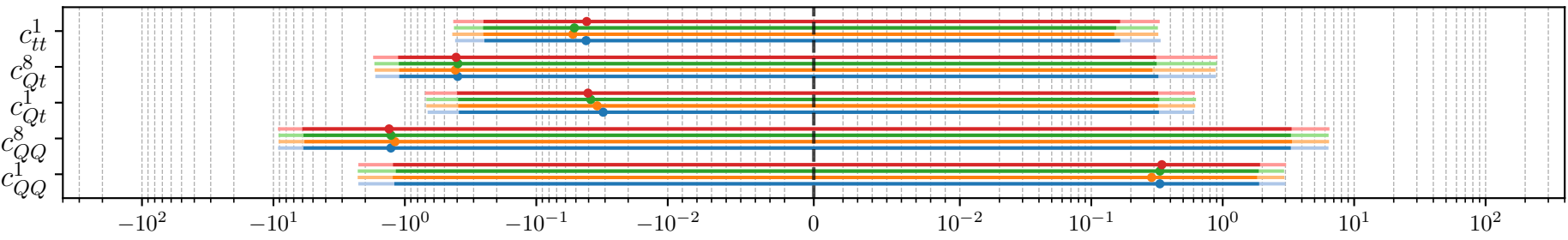
2FB



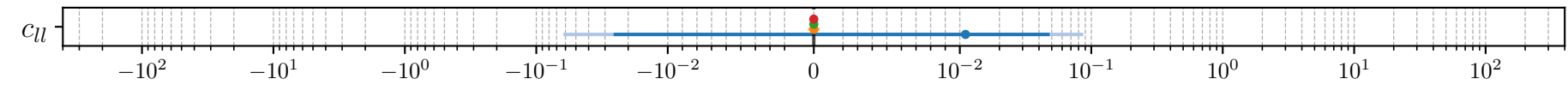
2L2H



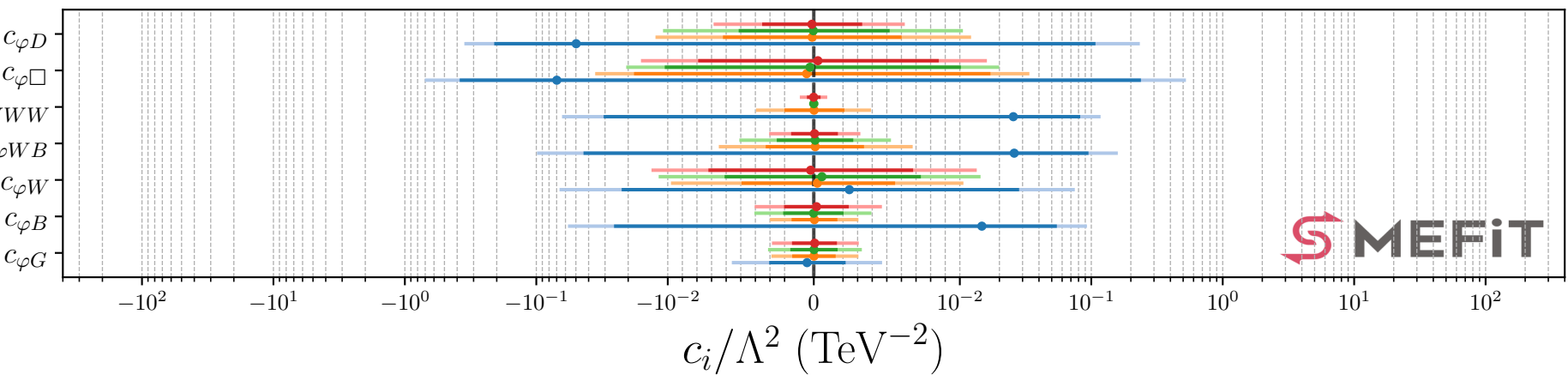
4H



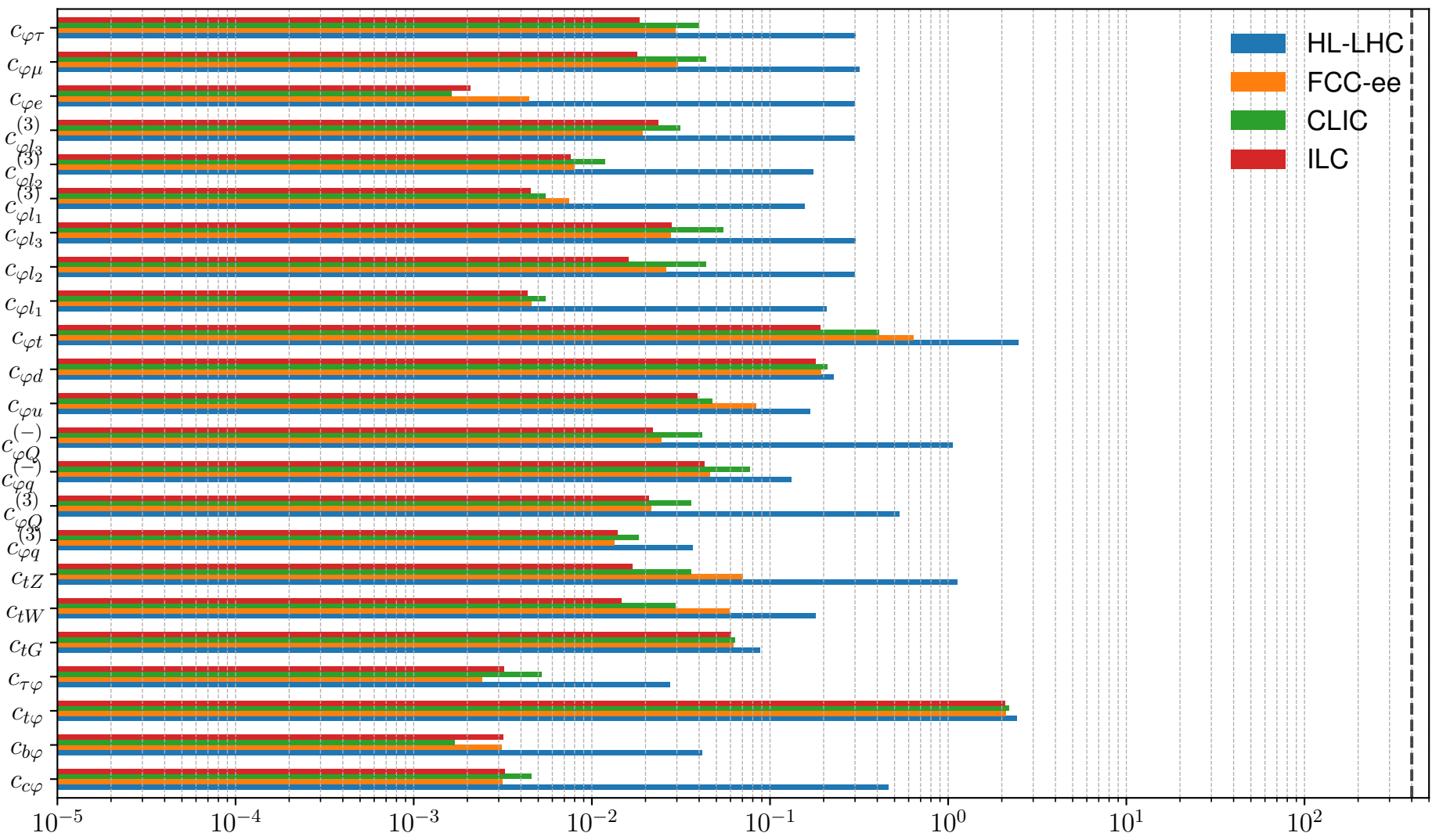
4l



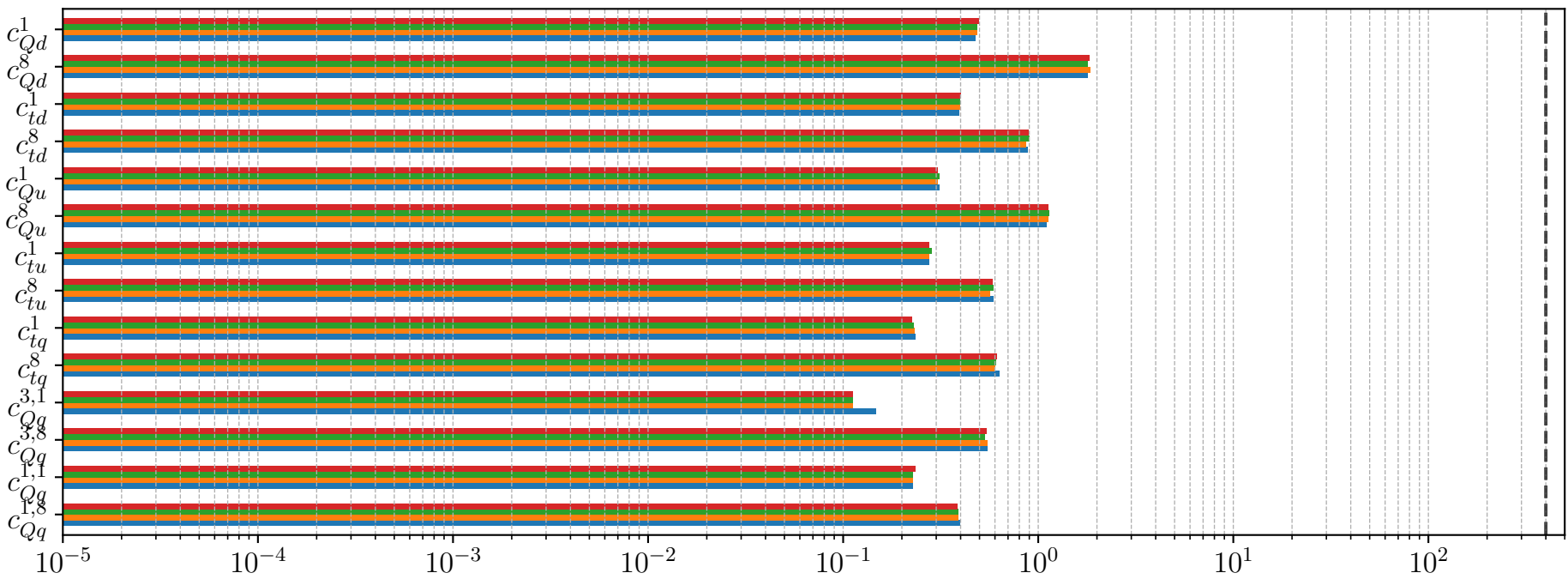
B



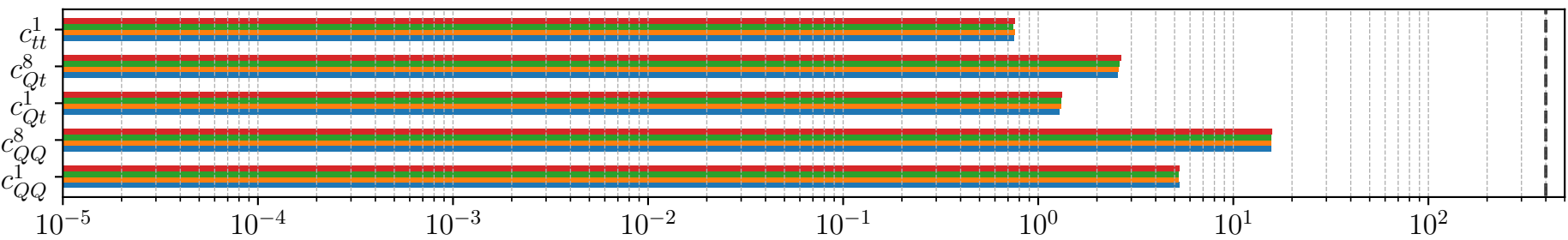
2FB



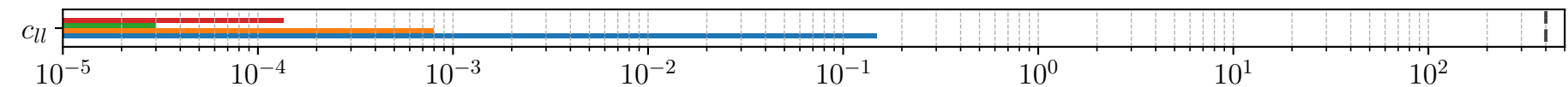
2L2H



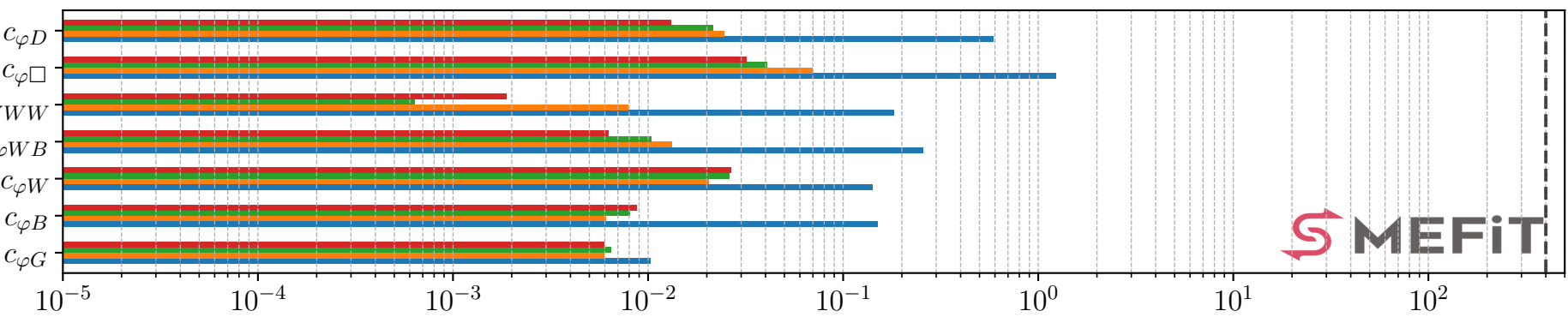
4H



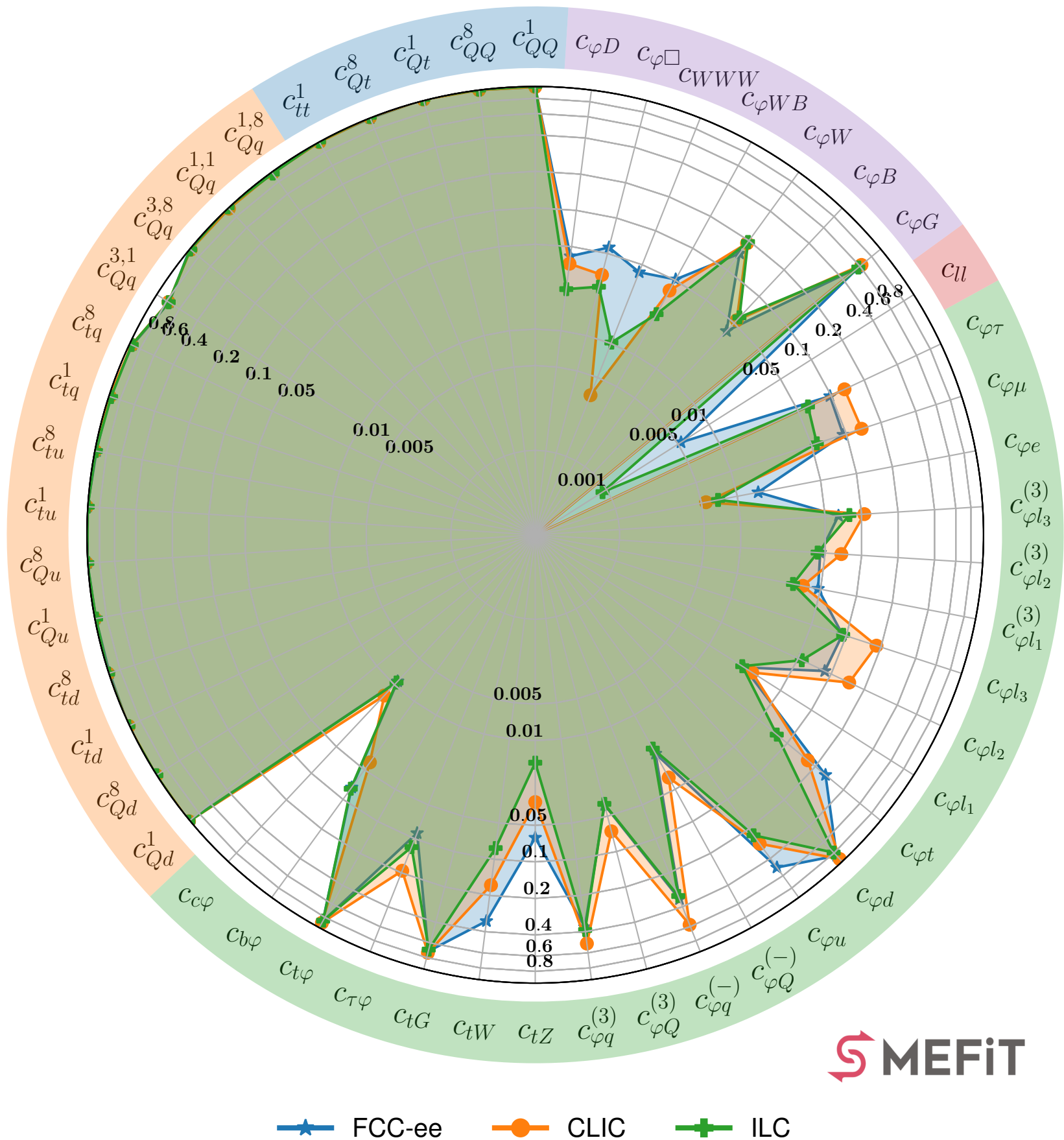
4l



B



Ratio of Uncertainties to HL – LHC Baseline, $\mathcal{O}(\Lambda^{-4})$, Marginalised



HL-LHC FCC-ee CLIC ILC

