		HL-I	LHC	FCC-ee	: 91 GeV	FCC-ee:	91 + 161 GeV	FCC-ee	: 91 + 161 + 240 Ge
Class	Coefficients	Fitted		Fitted	Fixed	Fitted	Fixed	Fitted	Fixed
	c_{carphi}	√		√		√		√	
	c_{barphi}	√		√		√		√	
	c_{tarphi}	√		√		√		√	
	$c_{ auarphi}$	√		√		√		√	
	c_{tG}	√		√		√		√	
	c_{tW}	✓		√		√		√	
	c_{tZ}	√		√		√		√	
	$c_{\varphi q}^{(3)}$	✓		√		√		√	
	$c_{\varphi q}^{(3)}$ $c_{\varphi Q}^{(3)}$ $c_{\varphi Q}^{(-)}$ $c_{\varphi q}^{(-)}$ $c_{\varphi Q}^{(-)}$	✓		√		√		√	
	$c_{\varphi q}^{(-)}$	√		√		√		√	
2FB	$c_{\omega Q}^{(-)}$	√		✓		√		√	
21 D	$c_{\varphi u}$	√		√		√		√	
	$c_{arphi d}$	√		√		√		√	
	$c_{\varphi t}$	√		√		√		√	
	$c_{\varphi l_1}$	√		√		√		√	
	$c_{\varphi l_2}$	✓		√		√		√	
	$c_{\varphi l_3}$	√		✓		√		√	
	$c_{\varphi l_1}^{(3)}$	✓		✓		 		✓	
	$\begin{array}{c} c_{\varphi l_{3}} \\ c_{\varphi l_{1}} \\ c_{\varphi l_{1}} \\ c_{\varphi l_{2}} \\ c_{\varphi l_{3}} \\ c_{\varphi l_{3}} \end{array}$	✓		✓		√		✓	
	$c_{\varphi l_3}^{(3)}$	✓		✓		√		✓	
	$c_{arphi e}$	✓		√		√		✓	
	$c_{arphi\mu}$	√		√		√		√	
	$c_{arphi au}$	√		√		√		√	
41	c_{ll}	✓		✓		√		✓	
	$c_{arphi G}$	√		✓		√		√	
В	$c_{\varphi B}$	√		√		√		√	
	$c_{\varphi W}$	√		√		√		√	
	$c_{\varphi WB}$	√		√		√		√	
	c_{WWW}	√		√		√		√	
	$c_{\varphi\Box}$	√		√		√		√	
	$c_{\varphi D}$	✓	<u></u>	✓		√		✓	
	Number fitted coefficients	31		31		31		31	

Table 1: Coefficient comparison

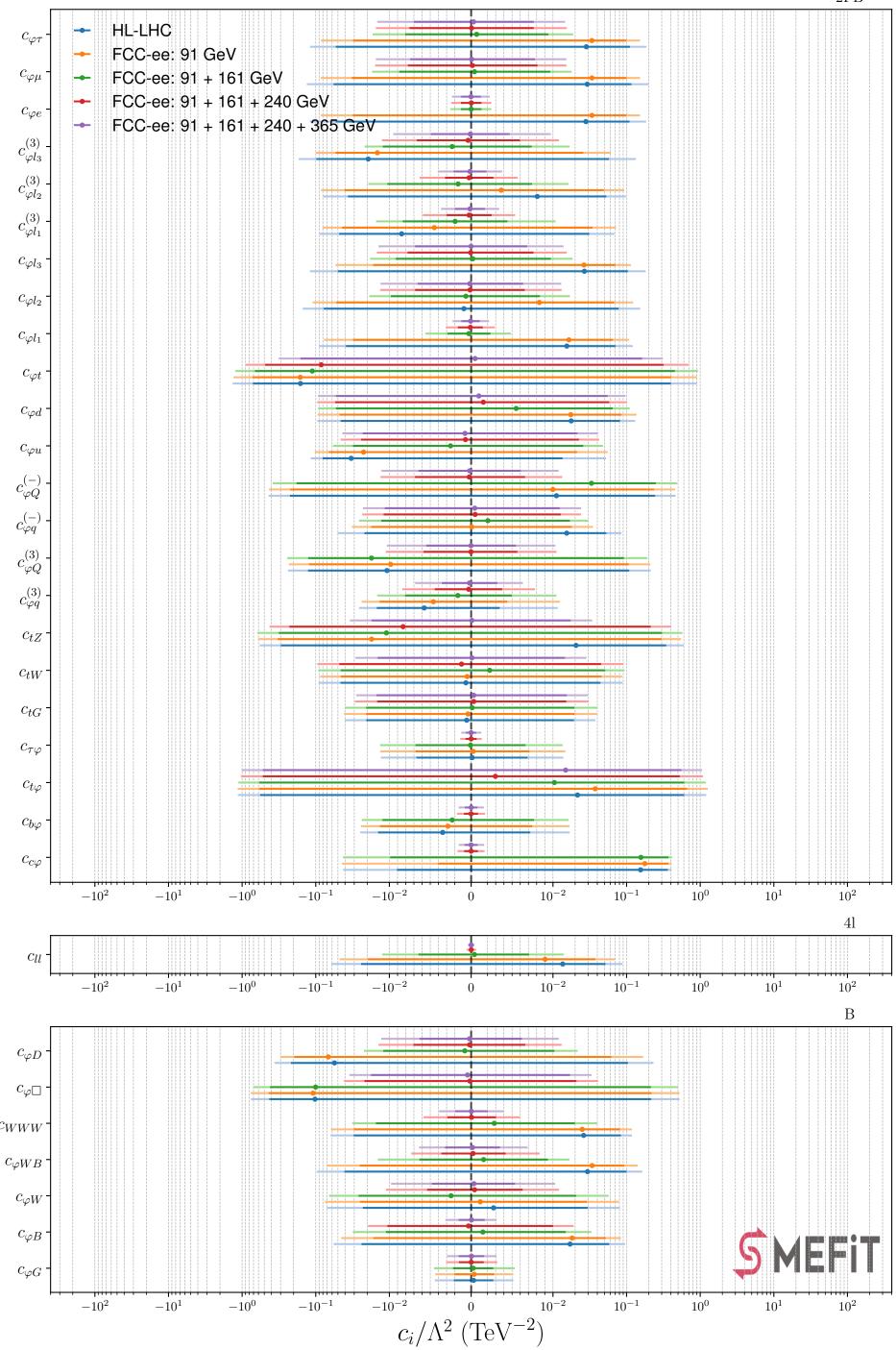
Type	Datasets	HL-LHC	FCC-ee: 91 GeV	FCC-ee: 91 + 161 GeV	FCC-ee: 91 + 161 + 240
	ATLAS_ttbb_13TeV_2016	√	✓	√	✓
	ATLAS_tttt_13TeV_run2	√	√	√	√
	ATLAS_tttt_13TeV_slep_inc	√	√	√	√
	ATLAS_tttt_13TeV_2023	/	√	√	√
	CMS_ttbb_13TeV	<i>-</i>		√ ·	√ ·
	CMS_ttbb_13TeV_2016	<i>-</i>	<i>-</i>	· /	·
4H	CMS_ttbb_13TeV_dilepton_inc	-/		./	√
	CMS_ttbb_13TeV_ljets_inc	V	V	V	V ✓
	CMS_tttt_13TeV	V /	V	V	V
	CMS_tttt_13TeV CMS_tttt_13TeV_run2	V	V	V	V
		V	√	V	V
	CMS_tttt_13TeV_slep_inc	√	√	√	√
	CMS_tttt_13TeV_2023	√	√	√	√
	ATLAS_CMS_SSinc_RunI	√	✓	✓	√
	ATLAS_SSinc_RunII	√	✓	√	√
	CMS_SSinc_RunII	√	✓	√	✓
	ATLAS_WH_Hbb_13TeV	√	√	√	√
TT T	ATLAS_ZH_Hbb_13TeV	√	√	√	√
HrunI		/	√	√	√
		· /	·	<i></i>	<i>,</i>
		TLAS_ZH_Hbb_13TeV ✓ ✓ TLAS_ggF_13TeV_2015 ✓ ✓ TLAS_ggF_ZZ_13TeV ✓ ✓ MS_H_13TeV_2015_pTH ✓ ✓ MS_ggF_aa_13TeV ✓ ✓ TLAS_STXS_runH_13TeV ✓ ✓ EP1_EWPOs_2006 ✓ ✓ EP_Bhabha_2013 ✓ ✓ EP_Brw_2013 ✓ ✓ EP_alphaEW ✓ ✓ TLAS_WW_13TeV_2016_memu ✓ ✓ MS_WZ_13TeV_2016_pTZ ✓ ✓ MS_WZ_13TeV_2022_pTZ ✓ ✓	· /		
				•	./
		V	V	V	V
		V	V	V	V
		√	√	√	V
LEP		√	√	√	√
		√	✓	✓	√
		√	✓	✓	√
	ATLAS_WW_13TeV_2016_memu	✓	✓	✓	✓
	ATLAS_WZ_13TeV_2016_mTWZ	√	✓	√	✓
	CMS_WZ_13TeV_2016_pTZ	√	√	√	√
3737	CMS_WZ_13TeV_2022_pTZ	√	√	√	√
VV	LEP_eeWW_182GeV	√	√	√	√
		/	√	√	√
		<i>-</i>	·	· /	<i>'</i>
		./		./	./
		V			V
		V	V	V	V
		V	√	V	V
		√	√	√	V
	CMS_t_tch_8TeV_diff_Yt	√	√	√	√
t8	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	√	√	√	✓
	ATLAS_tW_13TeV_inc	√	√	√	√
	ATLAS_tW_8TeV_inc	/	√	√	√
	ATLAS_tW_slep_8TeV_inc	<i>-</i>	· /	· /	<i>'</i>
	CMS_tW_13TeV_inc	./	./	./	./
	CMS_tW_13TeV_slep_inc	V	V	V	V
tW	CMS_tW_8TeV_inc	V	V	V	V
l tvv		V	V	V	V
	ATLAS_tZ_13TeV_inc	V	V	V	V
	ATLAS_tZ_13TeV_run2_inc	√	√	√	√
	CMS_tZ_13TeV_2016_inc	√	√	√	√
	CMS_tZ_13TeV_inc	✓	✓	√	√
	$CMS_tZ_13TeV_pTt$	<u></u>	✓ <u> </u>	<u> </u>	<u> </u>
	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	./	./	./	· ./
I	01/1010011010 ¥ 11/100	· •		•	· •

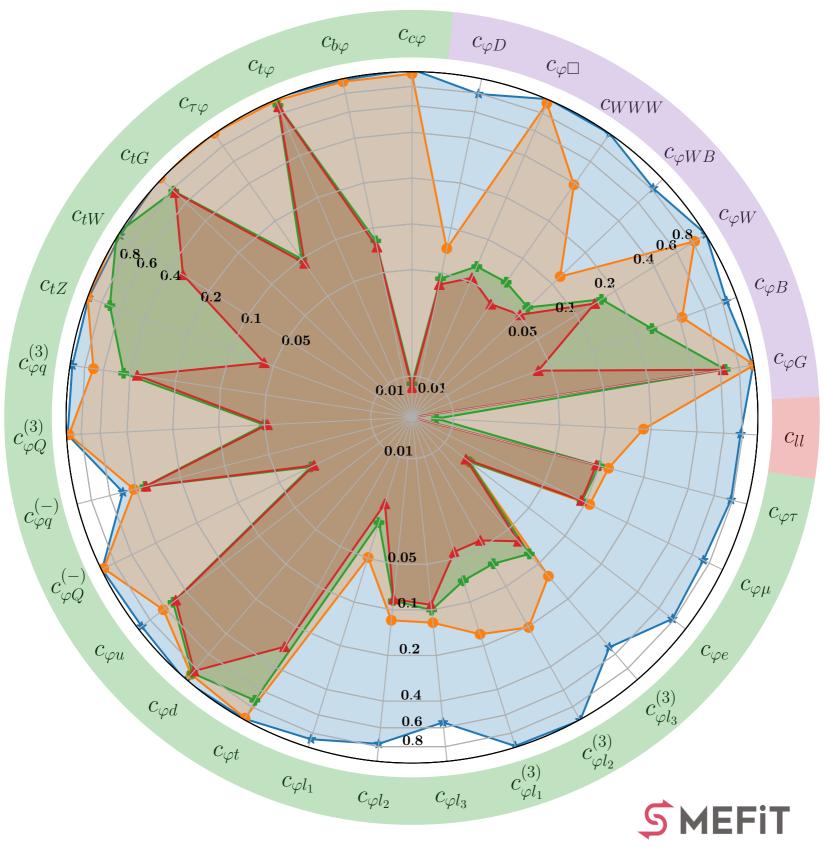
1

 tt

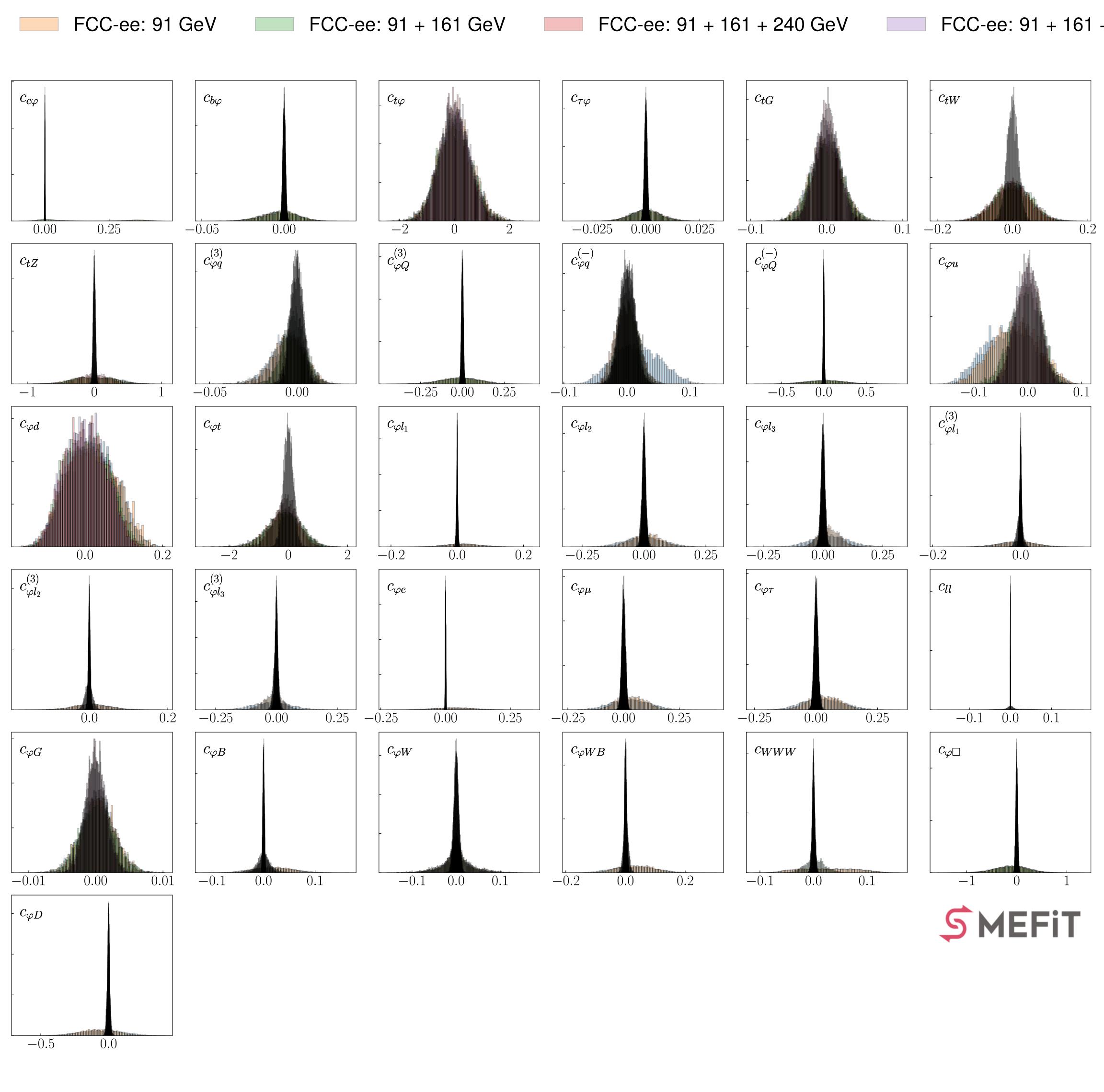
	$CMS_tt_13TeV_dilep_2015_Mtt$		\checkmark	✓	\checkmark
	CMS_tt_13TeV_dilep_2016_Mtt	√	√	√	✓
	CMS_tt_13TeV_ljets_2015_Mtt	√	√	✓	✓
	CMS_tt_13TeV_ljets_2016_Mtt	√	√	✓	✓
	CMS_tt_13TeV_ljets_inc	√	√	✓	✓
	ATLAS_WhelF_8TeV	√	√	√	✓
	ATLAS_Whel_13TeV	√	√	√	✓
	CMS_WhelF_8TeV	√	√	√	✓
	ATLAS_CMS_tt_AC_8TeV	√	√	√	✓
	ATLAS_tt_13TeV_asy_2022	√	√	√	✓
	CMS_tt_13TeV_asy	√	√	√	✓
	ATLAS_ttZ_13TeV	√	✓	√	✓
	ATLAS_ttZ_13TeV_2016	√	√	√	✓
	$ATLAS_ttZ_13TeV_pTZ$	√	√	√	✓
	ATLAS_ttZ_8TeV	√	✓	✓	✓
	CMS_ttZ_13TeV	√	✓	√	✓
ttV	$CMS_ttZ_13TeV_pTZ$	√	✓	√	√
UUV	CMS_ttZ_8TeV	√	√	√	√
	ATLAS_ttW_13TeV	√	✓	√	✓
	ATLAS_ttW_13TeV_2016	√	✓	√	✓
	ATLAS_ttW_8TeV	√	√	√	✓
	$CMS_{tt}W_{1}3TeV$	√	✓	√	✓
	$\mathrm{CMS_ttW_8TeV}$	√	✓	√	✓
tta	ATLAS_tta_8TeV	√	✓	√	✓
L	CMS_tta_8TeV	√	✓	√	✓

Table 1: Dataset comparison





FCC-ee: 91 GeV FCC-ee: 91 + 161 + 240 GeV



		HL-LHC				FCC-ee: 91 GeV			
Class	Coefficients	best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bounds	best	68%
	$c_{c\varphi}$	0.155	[-0.009,0.363]	[-0.043,0.41]	0.177	[-0.004,0.369]	[-0.044,0.411]	0.157	[-
	c_{barphi}	-0.003	[-0.014,0.007]	[-0.025,0.017]	-0.003	[-0.013,0.007]	[-0.024,0.017]	-0.002	[-(
	c_{tarphi}	0.022	[-0.568, 0.607]	[-1.144,1.208]	0.037	[-0.588, 0.665]	[-1.15,1.267]	0.01	[-(
	$c_{ auarphi}$	0.0	[-0.007,0.007]	[-0.013,0.014]	0.0	[-0.007,0.007]	[-0.013,0.015]	-0.0	[-(
	c_{tG}	-0.001	[-0.021,0.019]	[-0.04,0.038]	-0.0	[-0.021,0.02]	[-0.041,0.04]	0.0	[-
	c_{tW}	-0.001	[-0.046, 0.044]	[-0.092,0.088]	-0.0	[-0.046,0.046]	[-0.087,0.087]	0.002	[-(
	c_{tZ}	0.021	[-0.298, 0.345]	[-0.577, 0.599]	-0.017	[-0.328,0.299]	[-0.608, 0.55]	-0.011	[-(
	$c_{\varphi q}^{(3)}$	-0.006	[-0.015,0.003]	[-0.026,0.012]	-0.005	[-0.014,0.004]	[-0.024,0.012]	-0.002	[-(
	$c_{\varphi Q}^{(3)}$	-0.011	[-0.127, 0.108]	[-0.238,0.213]	-0.01	[-0.123,0.108]	[-0.232,0.21]	-0.017	[-(
	$c_{\varphi q}^{(-)}$	0.015	[-0.022,0.053]	[-0.051,0.085]	0.0	[-0.018,0.018]	[-0.032,0.035]	0.002	[-(
$\mid_{ m 2FB}\mid$	$c_{\varphi Q}^{(-)}$	0.011	[-0.224,0.244]	[-0.437,0.463]	0.01	[-0.223,0.236]	[-0.432,0.456]	0.033	[-(
	$c_{\varphi u}$	-0.033	[-0.081,0.014]	[-0.117,0.052]	-0.022	[-0.067,0.021]	[-0.103,0.056]	-0.003	[-(
	$c_{\varphi d}$	0.018	[-0.046,0.081]	[-0.095,0.131]	0.017	[-0.048,0.085]	[-0.094,0.137]	0.006	<u> </u>
	$c_{\varphi t}$	-0.161	[-0.713,0.4]	[-1.346,0.899]	-0.162	[-0.719,0.402]	[-1.308,0.901]	-0.112	[-(
	$c_{\varphi l_1}$	0.015	[-0.039,0.071]	[-0.09,0.121]	0.016	[-0.031,0.065]	[-0.077,0.108]	-0.0	[-(
	$c_{\varphi l_2}$	-0.001	[-0.078,0.078]	[-0.151,0.153]	0.008	[-0.052,0.068]	[-0.11,0.122]	-0.001	[-
	$c_{\varphi l_3}$	0.027	[-0.05,0.104]	[-0.12,0.182]	0.026	[-0.017,0.071]	[-0.054,0.114]	0.0	[-
	$c_{\varphi l_1}^{(3)}$	-0.009	[-0.048,0.031]	[-0.089, 0.068]	-0.005	[-0.044,0.034]	[-0.081,0.072]	-0.002	[-(
	$c_{\varphi l_2}^{(3)}$	0.008	[-0.037,0.053]	[-0.079,0.098]	0.004	[-0.041,0.049]	[-0.085,0.093]	-0.002	[-(
-	$c_{\varphi l_{1}}^{(3)} \\ c_{\varphi l_{2}}^{(3)} \\ c_{\varphi l_{2}}^{(3)} \\ c_{\varphi l_{3}}^{(3)}$	-0.019	[-0.098,0.058]	[-0.17,0.134]	-0.015	[-0.054,0.026]	[-0.1,0.061]	-0.002	[-(
	$c_{\varphi e}$	0.028	[-0.054,0.11]	[-0.12,0.185]	0.034	[-0.031,0.099]	[-0.085,0.152]	0.0	[-(
	$c_{\varphi\mu}$	0.029	[-0.057,0.116]	[-0.132,0.198]	0.034	[-0.032,0.1]	[-0.085,0.152]	0.0	[-
-	$c_{arphi au}$	0.028	[-0.053,0.111]	[-0.12,0.186]	0.034	[-0.031,0.099]	[-0.085,0.152]	0.001	[-(
41	c_{ll}	0.014	[-0.024,0.052]	[-0.062,0.087]	0.009	[-0.02,0.038]	[-0.047,0.07]	0.0	[-(
	$c_{\varphi G}$	0.0	[-0.002,0.003]	[-0.004,0.005]	0.0	[-0.002,0.003]	[-0.004,0.005]	0.0	[-(
	$c_{\varphi B}$	0.017	[-0.024,0.058]	[-0.057,0.095]	0.018	[-0.017,0.052]	[-0.045,0.084]	0.001	[-(
В	$c_{\varphi W}$	0.003	[-0.023,0.03]	[-0.071,0.081]	0.001	[-0.025,0.029]	[-0.075,0.078]	-0.002	[-(
	$c_{\varphi WB}$	0.029	[-0.041,0.1]	[-0.097,0.163]	0.034	[-0.025,0.093]	[-0.071,0.142]	0.002	[-(
	c_{WWW}	0.026	[-0.031,0.084]	[-0.063,0.118]	0.025	[-0.03,0.081]	[-0.062,0.118]	0.003	[-
	$c_{\varphi\Box}$	-0.102	[-0.427,0.215]	[-0.761, 0.525]	-0.109	[-0.437,0.219]	[-0.762,0.524]	-0.1	[-(
	$c_{\varphi D}$	-0.056	[-0.217,0.105]	[-0.363,0.232]	-0.067	[-0.195,0.062]	[-0.303,0.167]	-0.001	[-

Table 1: Coefficient comparison