		HL-I	LHC	ILC: 9	1 GeV	ILC: 91		ILC: 91	+250 + 350 GeV	ILC:
Class	Coefficients	Fitted	Fixed	Fitted	Fixed	Fitted	Fixed	Fitted	Fixed	Fitte
	c_{carphi}	√		√		√		√		√
	c_{barphi}	✓		✓		√		√		✓
	c_{tarphi}	✓		√		✓		√		✓
	$c_{ auarphi}$	√		√		√		√		√
	c_{tG}	√		√		√		√		√
	c_{tW}	✓		√		✓		✓		√
	c_{tZ}	√		√		√		√		√
	$\begin{bmatrix} c_{\varphi q}^{(3)} \end{bmatrix}$	✓		✓		✓		✓		✓
	$c_{\varphi q}^{(3)}$ $c_{\varphi q}^{(3)}$ $c_{\varphi Q}^{(-)}$ $c_{\varphi q}^{(-)}$ $c_{\varphi Q}^{(-)}$	✓		✓		✓		√		√
	$c_{\varphi q}^{(-)}$	√		√		√		√		√
2FB	$c_{ioO}^{(-)}$	√		√		√		√		√
21 1)	$c_{\varphi u}$	√		√		√		√		√
	$c_{arphi d}$	√		√		√		√		√
	$c_{\varphi t}$	√		√		√		√		√
	$c_{arphi l_1}$	✓		√		√		√		✓
	$c_{\varphi l_2}$	✓		✓		✓		✓		✓
	$c_{\varphi l_3}$	√		√		√		√		✓
	$c_{\varphi l_1}^{(3)}$	✓		✓		✓		✓		✓
	$c_{\varphi l_{1}}^{(3)}$ $c_{\varphi l_{1}}^{(3)}$ $c_{\varphi l_{2}}^{(3)}$ $c_{\varphi l_{3}}^{(3)}$	✓		√		✓		√		√
	$c_{ols}^{(3)}$	√		√		√		√		√
	$c_{arphi e}$	√		√		√		√		✓
	$c_{arphi\mu}$	√		√		√		√		√
	$c_{arphi au}$	√		√		√		√		√
41	c_{ll}	✓		✓		√		√		✓
	$c_{arphi G}$	✓		✓		✓		√		✓
	$c_{\varphi B}$	√		√		√		✓		√
	$c_{arphi W}$	√		√		√		✓		√
В	$c_{\varphi WB}$	√		√		√		√		✓
	c_{WWW}	√		√		√		√		√
	$c_{\varphi\Box}$	✓		√		√		√		√
	$c_{\varphi D}$	✓		√		✓		√		√
	Number fitted coefficients	31		31		31		31		31

Table 1: Coefficient comparison

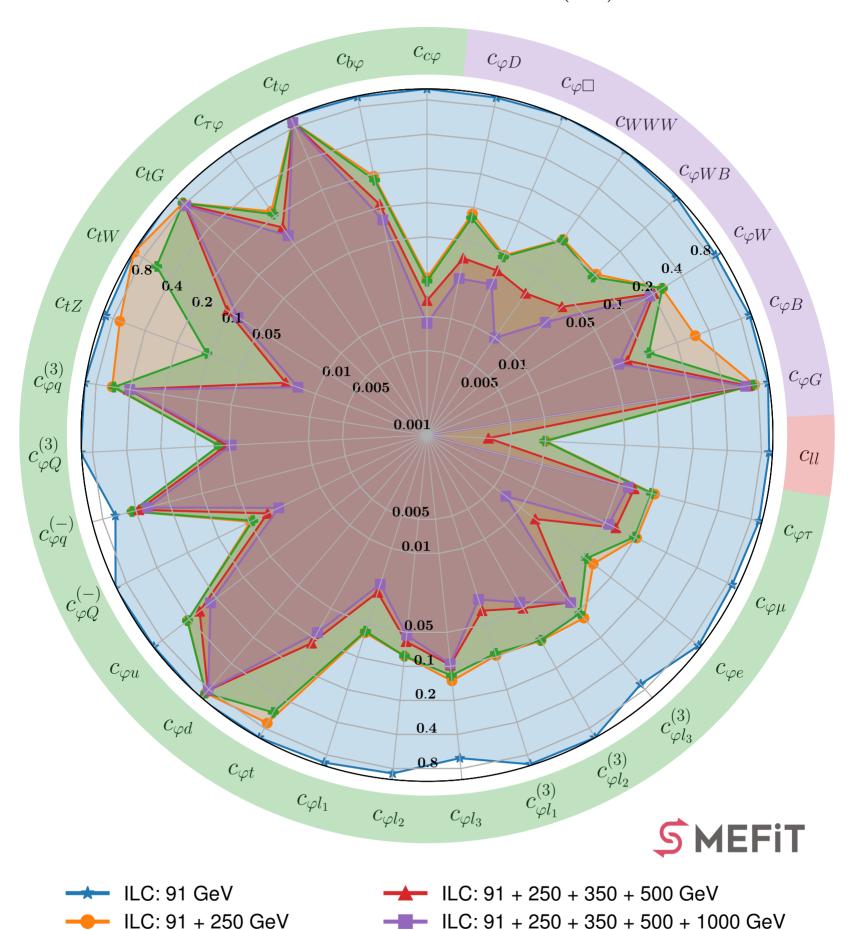
Type	Datasets	HL-LHC	ILC: 91 GeV	ILC: $91 + 250 \text{ GeV}$	ILC: $91 + 250 + 350 \text{ GeV}$	ILC:
	ATLAS_ttbb_13TeV_2016	√	√	√	√	
	ATLAS_tttt_13TeV_run2	√	√	√	√	
	ATLAS_tttt_13TeV_slep_inc	√	√	√	√	
	ATLAS_tttt_13TeV_2023	√	√	√	√	
	CMS_ttbb_13TeV	√	√	√	√	
	CMS_ttbb_13TeV_2016	<i></i>	√	√	<u> </u>	
4H	CMS_ttbb_13TeV_dilepton_inc	<i></i>	√	√	<u> </u>	
	CMS_ttbb_13TeV_ljets_inc	· /	·	·	· ✓	
	CMS_tttt_13TeV	<i></i>	·	→	,	
	CMS_tttt_13TeV_run2	→	·	→	·	
	CMS_tttt_13TeV_slep_inc	▼	→	√	↓	-
	CMS_tttt_13TeV_2023	V ✓	V ✓	∨	∨ ✓	
	ATLAS_CMS_SSinc_RunI	V ✓	√	V	∨	
	ATLAS_CMS_SSINC_RUIII ATLAS_SSinc_RunII	V	-	V		-
			√	√	√	
	CMS_SSinc_RunII	√	√	√	√	
	ATLAS_WH_Hbb_13TeV	√	√	√	√	
HrunI	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	✓	✓	✓	✓	
	LEP1_EWPOs_2006	√	✓	√	✓	
LEP	LEP_Bhabha_2013	√	√	√	✓	
LEFF	LEP_Brw_2013	√	√	√	✓	
	LEP_alphaEW	√	√	√	✓	
	ATLAS_WW_13TeV_2016_memu	√	√	√	√	
	ATLAS_WZ_13TeV_2016_mTWZ	√	√	√	√	
	$CMS_WZ_13TeV_2016_pTZ$	√	√	√	√	
	$\overline{\mathrm{CMS_WZ_13TeV_2022_pTZ}}$	√	√ ·	√	√	
VV	LEP_eeWW_182GeV	√	√	√	√	
	LEP_eeWW_189GeV	√	√	√	√	
	LEP_eeWW_198GeV	·	·	·	· ✓	<u> </u>
	LEP_eeWW_206GeV	·	·	·	· ✓	
	ATLAS_t_sch_8TeV	→	·		,	+
	ATLAS_t_tch_8TeV_diff_Yt	√	√	./	./	
	CMS_t_sch_8TeV	V ✓	√	∨ ✓	V ✓	
	CMS_t_tch_8TeV_diff_Yt	V ✓	√	∨ ✓	∨ ✓	-
	CMS_t_tch_8TeV_inc	V	√	∨ ✓	∨ ✓	-
t8	ATLAS_t_sch_13TeV_inc	V	√	∨ ✓	∨ ✓	-
	ATLAS_t_sch_13TeV_inc ATLAS_t_tch_13TeV_inc	√	·	V		-
		· · · · · · · · · · · · · · · · · · ·	√	V	√	-
	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	√	√	√	√	
	CMS_tW_13TeV_inc	✓	√	√	✓	
	CMS_tW_13TeV_slep_inc	√	√	✓	✓	
${ m tW}$	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	V √	V ✓	√	↓	
	CMS_tt_13TeV_Mtt	V ✓	V ✓	√	↓	-
I			1 ,		•	

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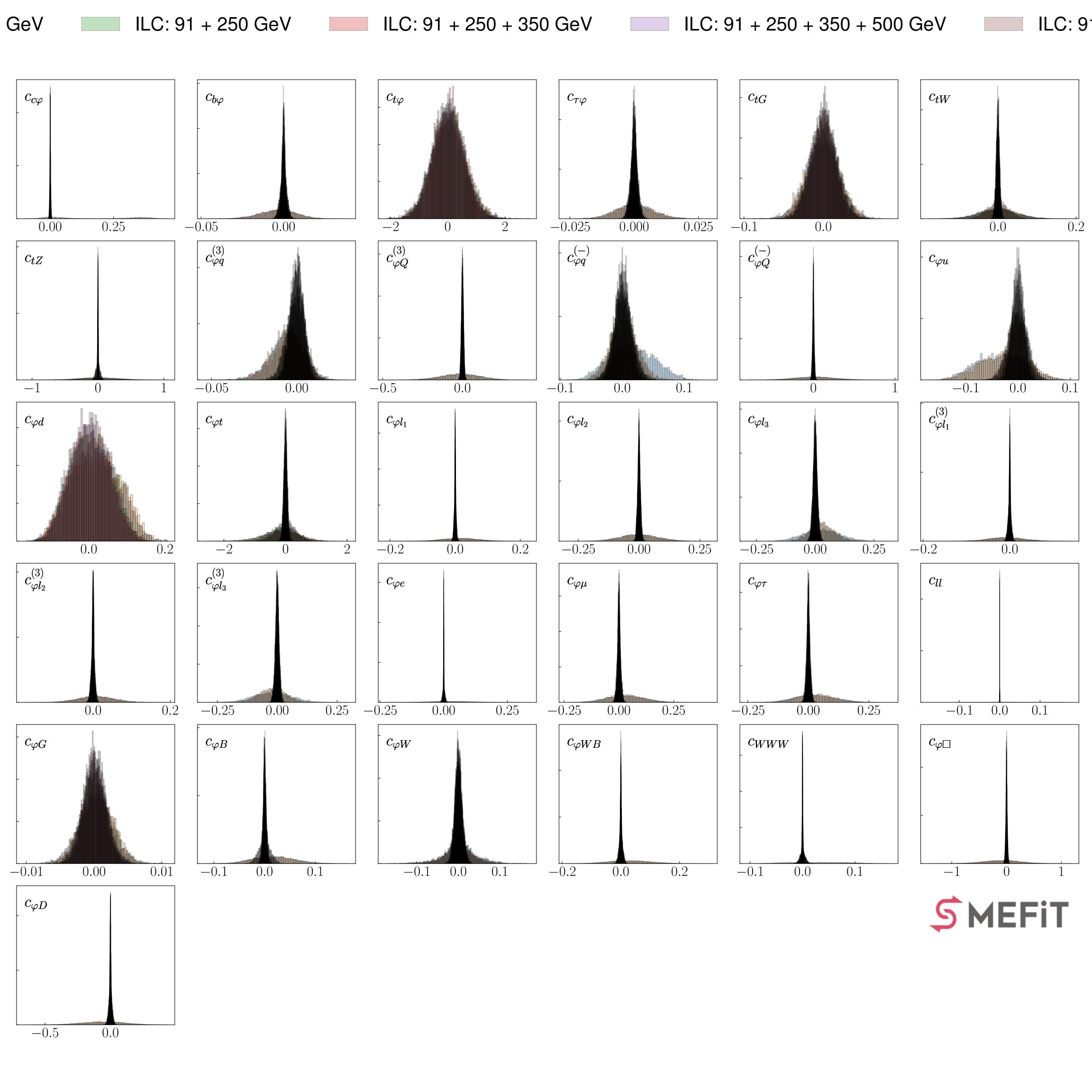
tt

	$CMS_tt_13TeV_dilep_2015_Mtt$	✓	\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	√	✓	√	√	
66 V	CMS_ttZ_8TeV	√	√	√	√	
	ATLAS_ttW_13TeV	√	✓	√	✓	
	ATLAS_ttW_13TeV_2016	√	✓	√	√	
	ATLAS_ttW_8TeV	√	✓	√	✓	
	CMS_ttW_13TeV	√	✓	√	✓	
	CMS_ttW_8TeV	√	✓	✓	✓	
tto	ATLAS_tta_8TeV	√	✓	✓	✓	
tta	CMS_tta_8TeV	√	✓	✓	√	

Table 1: Dataset comparison



ILC: 91 + 250 + 350 GeV



		HL-LHC				ILC: 91 GeV			
Class	Coefficients	best	68% CL Bounds	95% CL Bounds	best	68% CL Bounds	95% CL Bounds	best	68%
	c_{carphi}	0.155	[-0.009,0.363]	[-0.043,0.41]	0.174	[-0.006,0.368]	[-0.041,0.409]	-0.0	[-(
	c_{barphi}	-0.003	[-0.014,0.007]	[-0.025,0.017]	-0.004	[-0.014,0.007]	[-0.025,0.016]	-0.0	[-(
	c_{tarphi}	0.022	[-0.568, 0.607]	[-1.144,1.208]	0.068	[-0.534,0.675]	[-1.14,1.257]	0.024	[-
	$c_{ auarphi}$	0.0	[-0.007,0.007]	[-0.013,0.014]	0.0	[-0.007,0.007]	[-0.014,0.014]	-0.0	[-(
	c_{tG}	-0.001	[-0.021,0.019]	[-0.04,0.038]	-0.001	[-0.022,0.02]	[-0.041,0.041]	0.0	[-(
	c_{tW}	-0.001	[-0.046,0.044]	[-0.092,0.088]	0.003	[-0.043,0.048]	[-0.087,0.091]	-0.001	[-(
	c_{tZ}	0.021	[-0.298,0.345]	[-0.577,0.599]	-0.003	[-0.298,0.3]	[-0.567, 0.535]	-0.005	[-(
	$c_{\varphi q}^{(3)}$	-0.006	[-0.015,0.003]	[-0.026,0.012]	-0.005	[-0.015,0.004]	[-0.026,0.012]	-0.001	[-(
	$c_{\varphi Q}^{(3)}$	-0.011	[-0.127,0.108]	[-0.238,0.213]	-0.016	[-0.133,0.103]	[-0.249,0.21]	0.0	[-(
	$c_{\varphi q}^{(-)}$	0.015	[-0.022,0.053]	[-0.051,0.085]	0.002	[-0.02,0.024]	[-0.039,0.046]	0.002	[-(
2FB	$c_{\varphi Q}^{(-)}$	0.011	[-0.224,0.244]	[-0.437,0.463]	0.021	[-0.219,0.257]	[-0.433,0.487]	-0.0	[-(
21 15	$c_{\varphi u}$	-0.033	[-0.081,0.014]	[-0.117,0.052]	-0.027	[-0.073,0.019]	[-0.112,0.055]	-0.0	[-(
	$c_{arphi d}$	0.018	[-0.046,0.081]	[-0.095,0.131]	0.02	[-0.048,0.087]	[-0.097,0.134]	0.004	<u> </u>
	$c_{\varphi t}$	-0.161	[-0.713,0.4]	[-1.346,0.899]	-0.129	[-0.683,0.417]	[-1.312,0.931]	-0.088	[-(
	$c_{\varphi l_1}$	0.015	[-0.039,0.071]	[-0.09,0.121]	0.015	[-0.036,0.065]	[-0.084,0.114]	-0.0	[-(
	$c_{\varphi l_2}$	-0.001	[-0.078,0.078]	[-0.151,0.153]	0.001	[-0.068,0.071]	[-0.128,0.141]	0.0	[-(
	$c_{\varphi l_3}$	0.027	[-0.05,0.104]	[-0.12,0.182]	0.03	[-0.02,0.08]	[-0.065,0.132]	-0.0	[
	$c_{\varphi l_1}^{(3)}$	-0.009	[-0.048,0.031]	[-0.089,0.068]	-0.007	[-0.047,0.031]	[-0.083,0.069]	-0.001	[-(
	$c_{\varphi l_2}^{(3)}$ $c_{\varphi l_3}^{(3)}$	0.008	[-0.037,0.053]	[-0.079,0.098]	0.007	[-0.038,0.051]	[-0.081,0.093]	-0.001	[-(
	$c_{\omega l_3}^{(3)}$	-0.019	[-0.098,0.058]	[-0.17,0.134]	-0.022	[-0.076,0.032]	[-0.131,0.082]	-0.0	[-(
	$c_{\varphi e}$	0.028	[-0.054,0.11]	[-0.12,0.185]	0.03	[-0.044,0.105]	[-0.112,0.182]	0.0	[-(
	$c_{\varphi\mu}$	0.029	[-0.057,0.116]	[-0.132,0.198]	0.03	[-0.044,0.105]	[-0.112,0.179]	0.0	[-(
	$c_{arphi au}$	0.028	[-0.053,0.111]	[-0.12,0.186]	0.03	[-0.044,0.106]	[-0.113,0.18]	0.0	[-(
41	c_{ll}	0.014	[-0.024,0.052]	[-0.062,0.087]	0.014	[-0.021,0.049]	[-0.054,0.085]	-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	[-0.021,0.056]	[-0.052,0.094]	-0.0	[-(
В	$c_{arphi W}$	0.003	[-0.023,0.03]	[-0.071,0.081]	-0.0	[-0.024,0.025]	[-0.074,0.061]	0.001	[-
	$c_{\varphi WB}$	0.029	[-0.041,0.1]	[-0.097,0.163]	0.032	[-0.033,0.097]	[-0.092,0.163]	0.0	[-(
	c_{WWW}	0.026	[-0.031,0.084]	[-0.063,0.118]	0.033	[-0.025,0.088]	[-0.059,0.124]	0.0	[-(
	c_{φ}	-0.102	[-0.427,0.215]	[-0.761, 0.525]	-0.078	[-0.404,0.248]	[-0.738, 0.562]	-0.001	[-(
	$c_{\varphi D}$	-0.056	[-0.217,0.105]	[-0.363,0.232]	-0.06	[-0.209,0.088]	[-0.356,0.223]	-0.0	[-(

Table 1: Coefficient comparison