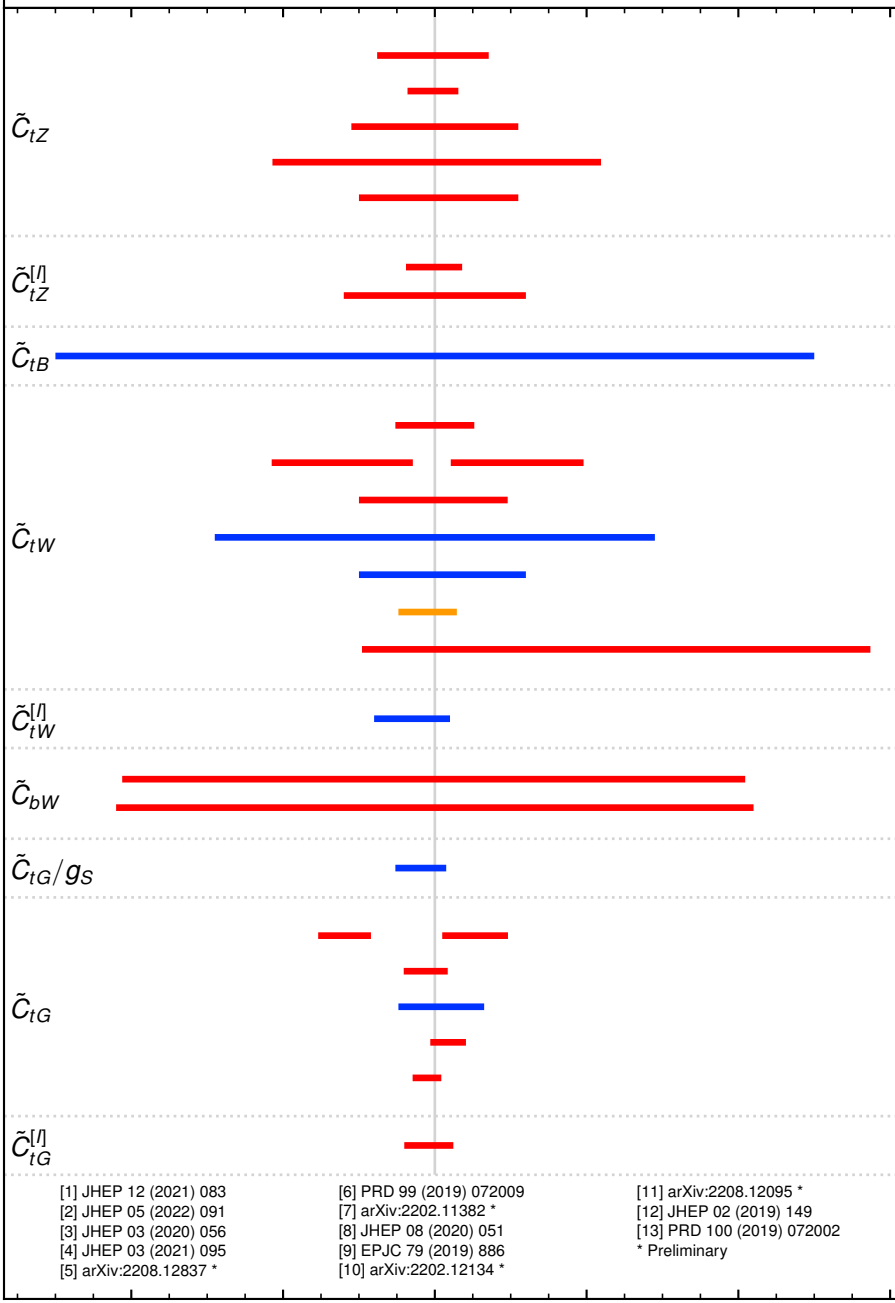
ATLAS+CMS *Preliminary*
LHC*top*WG

November 2022

(Top) quark - vector boson operators - Individual limits

ATLAS | ATLAS+CMS | CMS

Following arXiv:1802.07237
Dimension 6 operators $\tilde{C}_i \equiv C_i/\Lambda^2$



CMS, $tZq/t\bar{t}Z$ [1]	138 fb^{-1}
CMS, $t\bar{t}\gamma$ [2]	137 fb^{-1}
CMS, $t\bar{t}Z$ [3]	78 fb^{-1}
CMS, $t\bar{t}$ + $Z/W/H$, tZq,tHq [4]	42 fb^{-1}
CMS, $t\bar{t}$ + boosted Z/H [5]	138 fb^{-1}
CMS, $t\bar{t}\gamma$ [2]	137 fb^{-1}
CMS, $t\bar{t}Z$ [3]	78 fb^{-1}
ATLAS, $t\bar{t}Z$ [6]	36 fb^{-1}
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CMS, $t\bar{t}$ + $Z/W/H$, tZq,tHq [4]	42 fb^{-1}
CMS, $t\bar{t}$ + boosted Z/H [5]	138 fb^{-1}
ATLAS, $t\bar{t}Z$ [6]	36 fb^{-1}
ATLAS, Top polarization [7]	139 fb^{-1}
ATLAS+CMS, W helicity [8]	20+20 fb^{-1}
CMS, $t\bar{t}$ and tW, BSM search [9]	36 fb^{-1}
ATLAS, Top polarization [7]	139 fb^{-1}
CMS, $t\bar{t}$ + $Z/W/H$, tZq,tHq [4]	42 fb^{-1}
CMS, $t\bar{t}$ + boosted Z/H [5]	138 fb^{-1}
ATLAS, $t\bar{t}$ ℓ + jets boosted [10]	139 fb^{-1}
CMS, $t\bar{t}$ + $Z/W/H$, tZq,tHq [4]	42 fb^{-1}
CMS, $t\bar{t}$ and tW, BSM search [9]	36 fb^{-1}
ATLAS, $t\bar{t}$ rapidity asymmetry [11]	139 fb^{-1}
CMS, $t\bar{t}$ dilepton [12]	36 fb^{-1}
CMS, $t\bar{t}$ spin correlations [13]	36 fb^{-1}
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[1] JHEP 12 (2021) 083
[2] JHEP 05 (2022) 091
[3] JHEP 03 (2020) 056
[4] JHEP 03 (2021) 095
[5] arXiv:2208.12837 *
[6] PRD 99 (2019) 072009
[7] arXiv:2202.11382 *
[8] JHEP 08 (2020) 051
[9] EPJC 79 (2019) 886
[10] arXiv:2202.12134 *
[11] arXiv:2208.12095 *
[12] JHEP 02 (2019) 149
[13] PRD 100 (2019) 072002
* Preliminary

EFT formalism is employed at different levels of experimental analyses