ATLAS tittl 3TeV run2 ATLAS tittl 3TeV slep inc ATLAS tittl 13TeV slep inc ATLAS tittl 13TeV slep inc ATLAS tittl 13TeV slep inc CMS tibb.13TeV dilepton.inc CMS tibb.13TeV dilepton.inc CMS tibb.13TeV ples inc CMS.tibb.13TeV ples inc CMS.tibb.13TeV ples inc CMS.tibb.13TeV ples inc CMS.tibb.13TeV ples inc CMS.tittl.13TeV run2 CMS.tittl.13TeV run2 CMS.tittl.13TeV run2 CMS.tittl.13TeV run2 CMS.tittl.13TeV ples inc CMS	Type	Datasets	HL-LHC	FCC-ee	CLIC	ILC
### ATLAS.tttt.13TeV.2023		ATLAS_ttbb_13TeV_2016	✓	√	√	√
ATLAS.tttb.13TeV.2023 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.ttbb.13TeV.2016 CMS.tttl.13TeV.2023 CMS.tttl.13TeV.2023 CMS.tttl.13TeV.2023 CLIC.2h.ba.380GeV CLIC.2		ATLAS_tttt_13TeV_run2	√	√	√	√
CMS.ttbb.13TeV		ATLAS_tttt_13TeV_slep_inc	√	√	√	√
CMS.ttbb.13TeV.2016		ATLAS_tttt_13TeV_2023	√	√	√	√
CMS.ttbb.13TeV.dilepton.ine CMS.ttbb.13TeV ljets.ine CMS.tttt.13TeV CMS.tttt.13TeV v v v v v v v v v v v v v v v v v v v		CMS_ttbb_13TeV	√	√	√	√
CMS.ttbb.13TeV.ljets.ine	411	CMS_ttbb_13TeV_2016	√	√	√	√
CMS.tttt.13TeV run2	4П	CMS_ttbb_13TeV_dilepton_inc	√	√	√	√
CMS.tttt.13TeV run2		CMS_ttbb_13TeV_ljets_inc	√	√	√	√
CMS_tttt.13TeV_slep_inc			√	√	√	√
CMS.tttt.13TeV.2023		CMS_tttt_13TeV_run2	√	√	√	√
CMS.tttt.13TeV.2023		I .	√	√	√	
CLIC_zh_bb_380GeV			√	√	√	
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	CLIC_tautau_Afb_3000GeV			√	
	CLIC_tautau_Afb_380GeV			√	
	CLIC_Zdata_380GeV			✓	
	CLIC_Brw_380GeV			√	
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	ATLAS_CMS_SSinc_RunI			\ \ \ \	√
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	CMS_SSinc_RunII	✓	∨ ✓	√	∨ ✓
	ATLAS_WH_Hbb_13TeV	√	√	√	✓ ✓
	ATLAS_WH_Hbb_13TeV ATLAS_ZH_Hbb_13TeV		√	√	✓ ✓
HrunI		<u>√</u>		<u> </u>	
	ATLAS_ggF_13TeV_2015	√	√	√	√
	ATLAS_ggF_ZZ_13TeV	√	√	√	√
	CMS_H_13TeV_2015_pTH	<u>√</u>	√	√	√
	CMS_ggF_aa_13TeV	<u>√</u>	√	√	√
	ATLAS_STXS_runII_13TeV	√	√	√	√
	LEP1_EWPOs_2006	√	√	√	✓
LEP	LEP_Bhabha_2013	✓	√	√	✓
221	LEP_Brw_2013	✓	√	✓	✓
	LEP_alphaEW	✓	√	√	✓
	ATLAS_WW_13TeV_2016_memu	✓	✓	√	✓
	ATLAS_WZ_13TeV_2016_mTWZ	✓	✓	✓	✓
	$CMS_WZ_13TeV_2016_pTZ$	\checkmark	✓	√	√
W	$CMS_WZ_13TeV_2022_pTZ$	\checkmark	✓	✓	✓
v v	LEP_eeWW_182GeV	✓	√	√	√
	LEP_eeWW_189GeV	√	√	√	√
	LEP_eeWW_198GeV	√	√	√	√
	LEP_eeWW_206GeV	√	√	√	√
	ATLAS_t_sch_8TeV	√	√	√	√
	ATLAS_t_tch_8TeV_diff_Yt		·	·	√
	CMS_t_sch_8TeV		√	\ \ \ \ \	√
	CMS_t_tch_8TeV_diff_Yt	✓	√	V ✓	V ✓
	CMS_t_tch_8TeV_inc	<u>√</u>	V ✓	\ \ \ \	V ✓
t8	ATLAS_t_sch_13TeV_inc	✓	V ✓	V ✓	V ✓
	ATLAS_t_scn_13 TeV_inc ATLAS_t_tch_13 TeV_inc		√	√	
					√
	CMS_t_tch_13TeV_2016_diff_Yt	√	√	√	√
	CMS_t_tch_13TeV_2019_diff_Yt		√	√	√
	CMS_t_tch_13TeV_inc	√	√	√	√
	ATLAS_tW_13TeV_inc	<u>√</u>	✓	√	√
	ATLAS_tW_8TeV_inc	√	√	√	√
	ATLAS_tW_slep_8TeV_inc	\checkmark	√	√	√
					√
	CMS_tW_13TeV_inc	√	√	√	
	CMS_tW_13TeV_inc CMS_tW_13TeV_slep_inc	√	√	✓	√
${ m tW}$	CMS_tW_13TeV_inc CMS_tW_13TeV_slep_inc CMS_tW_8TeV_inc	•	✓ ✓	√ √	✓ ✓
tW	CMS_tW_13TeV_inc CMS_tW_13TeV_slep_inc CMS_tW_8TeV_inc ATLAS_tZ_13TeV_inc	√	√ √ √	✓	✓ ✓ ✓
${ m tW}$	CMS_tW_13TeV_inc CMS_tW_13TeV_slep_inc CMS_tW_8TeV_inc ATLAS_tZ_13TeV_inc ATLAS_tZ_13TeV_run2_inc	√ √	✓ ✓	√ √	√ √ √
tW	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	√ √ √	√	√ √ √	✓ ✓ ✓ ✓
${ m tW}$	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	\frac{1}{}	√ √ √	√ √ √	√ √ √
${ m tW}$	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	√	√	\(\sqrt{1} \)	✓ ✓ ✓ ✓

	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_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	\checkmark	√	✓	√
	ATLAS_ttZ_13TeV_pTZ	\checkmark	√	✓	\checkmark
	ATLAS_ttZ_8TeV	\checkmark	✓	✓	\checkmark
	CMS_ttZ_13TeV	√	√	√	√
ttV	CMS_ttZ_13TeV_pTZ	√	√	√	√
tt v	CMS_ttZ_8TeV	√	√	√	√
	ATLAS_ttW_13TeV	√	√	√	√
	ATLAS_ttW_13TeV_2016	√	√	√	✓
	$ATLAS_{ttW_8TeV}$	✓	√	√	\checkmark
	CMS_ttW_13TeV	√	√	✓	√
	CMS_ttW_8TeV	√	√	√	√
tta	ATLAS_tta_8TeV	√	√	√	✓
	CMS_tta_8TeV	✓	√	√	√

Table 1: Dataset comparison