

Type	Datasets	HL-LHC	ILC: 91 GeV	ILC: 91 + 250 GeV	ILC: 91 + 250 + 350 GeV	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	✓	✓	✓	✓	
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_Whel_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