

## MC Production

Final State	expected	generated	simulated	Sim Ratio(%)	Path
4 Fermions					
leptonic				***	***
zz_l_4tau	22119	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/leptonic/zz/sim
zz_l_4mu	73578	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/leptonic/zz/sim
zz_l_tau	88577	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/leptonic/zz/sim
zz_l_mumu	91758	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/leptonic/zz/sim
zz_l_tautau	46460	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/leptonic/zz/sim
ww_l	1984448	1984437	1982800	0.999	/cefs/data/FullSim/BKG/4fermions/leptonic/ww/sim
zzorww_l_mumu	1084790	1084777	1083400	0.999	/cefs/data/FullSim/BKG/4fermions/leptonic/zzorww/sim
zzorww_l_tautau	1039492	1039510	1038400	0.999	/cefs/data/FullSim/BKG/4fermions/leptonic/zzorww/sim
sznu_l_mumu	218816	218824	218200	0.997	/cefs/data/FullSim/BKG/4fermions/leptonic/sznu/sim
sznu_l_tautau	73578	100000	99600	0.996	/cefs/data/FullSim/BKG/4fermions/leptonic/sznu/sim
sze_l_mu	4303527	4303528	4290400	0.997	/cefs/data/FullSim/BKG/4fermions/leptonic/sze/mu/sim
sze_l_nunu	149581	149583	18600	0.124	/cefs/data/FullSim/BKG/4fermions/leptonic/sze/nu/sim
sze_l_tau	758207	758206	220600	0.291	/cefs/data/FullSim/BKG/4fermions/leptonic/sze/tau/sim
sw_l_mu	2167466	2167447	2149200	0.992	/cefs/data/FullSim/BKG/4fermions/leptonic/sw/sim
sw_l_tau	2168556	2168556	2157600	0.995	/cefs/data/FullSim/BKG/4fermions/leptonic/sw/sim
szeorsw_l	1259167	1259165	718000	0.570	/cefs/data/FullSim/BKG/4fermions/leptonic/szeorsw/sim
Semi-leptonic					***
zz_sl_nu_up	412686	412709	412000	0.998	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
zz_sl_nu_down	681043	681041	678600	0.996	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
zz_sl_mu_up	416019	416008	413800	0.995	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
zz_sl_mu_down	646198	646181	642400	0.994	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
zz_sl_tau_up	200889	200882	200600	0.999	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
zz_sl_nu_up	324715	324709	323200	0.995	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/zz_sl/sim
ww_sl_muq	11911394	11911396	11900000	0.999	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/ww_sl
ww_sl_tauq	11911394	11911396	11832000	0.993	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/ww_sl
sze_sl_uu	989093	989109	987400	0.998	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/sze_sl/dd/sim
sze_sl_dd	650036	649940	649542	0.998	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/sze_sl/uu/sim
sznu_sl_nu_up	283254	283254	282400	0.997	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/sznu_sl/sim
sznu_sl_nu_down	460964	460961	459400	0.997	/cefs/data/FullSim/BKG/4fermions/semi_leptonic/sznu_sl/sim
sw_sl	13025535	13025535	0	0	-
Hadronic					
zz_h_utut	419604	419584	419200	0.999	/cefs/data/FullSim/BKG/4fermions/hadronic/zz_h/sim
zz_h_dtdt	1142310	1142270	1135600	0.994	/cefs/data/FullSim/BKG/4fermions/hadronic/zz_h/sim
zz_h_uu_nodt	483032	483045	481000	0.996	/cefs/data/FullSim/BKG/4fermions/hadronic/zz_h/sim
zz_h_cc_nots	485002	485016	482800	0.995	/cefs/data/FullSim/BKG/4fermions/hadronic/zz_h/sim
ww_h_cuxx	17147189	17147188	1709400	0.100	/cefs/higgs/weiyyq/E250.Pww_h.e0.p0.whizard195/200k_ww_h_cuxx/01
ww_h_uubd	252	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/hadronic/ww_h
ww_h_uusd	837997	838010	205800	0.994	/cefs/data/FullSim/BKG/4fermions/hadronic/ww_h
ww_hccbs	28987	100000	100000	1.000	/cefs/data/FullSim/BKG/4fermions/hadronic/ww_h

ww_h_ccds	836128	836128	60600	0.993	/cefs/data/FullSim/BKG/4fermions/hadronic/ww_h
zzorww_h_uded	7930514	7930514	5558000	0.7	/cefs/dirac/user/b/byzhang/zzorww_h
zzorww_h_cscs	7923141	7923140	5558000	0.7	/cefs/dirac/user/b/byzhang/zzorww_h
2 Fermions					
qq	250284565	250283714	4838700	0.02	/cefs/data/FullSim/BKG/2fermions/QQ/LIAOLIBO
e2e2	25086253	25086255	14908000	0.59	/cefs/data/FullSim/BKG/2fermions/e2e2/100k_test /cefs/dirac/user/b/byzhang/20k_e2e2_01~20k_e2e2_12
e3e3	22093447	22093445	0	0	
bhabha	126210660	126210654	100000	~0	/cefs/data/FullSim/BKG/2fermions/bhabha/100k_test
signal					
e1e1h	38357	99938	100000	1.001	/cefs/data/FullSim/SIG
e2e2h	35849	99952	100000	1.000	/cefs/data/FullSim/SIG
e3e3h	35770	99951	100000	1.000	/cefs/data/FullSim/SIG
nnh	247237	247167	247600	1.002	/cefs/data/FullSim/SIG
qqh	724097	723755	724200	1.001	/cefs/data/FullSim/SIG

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