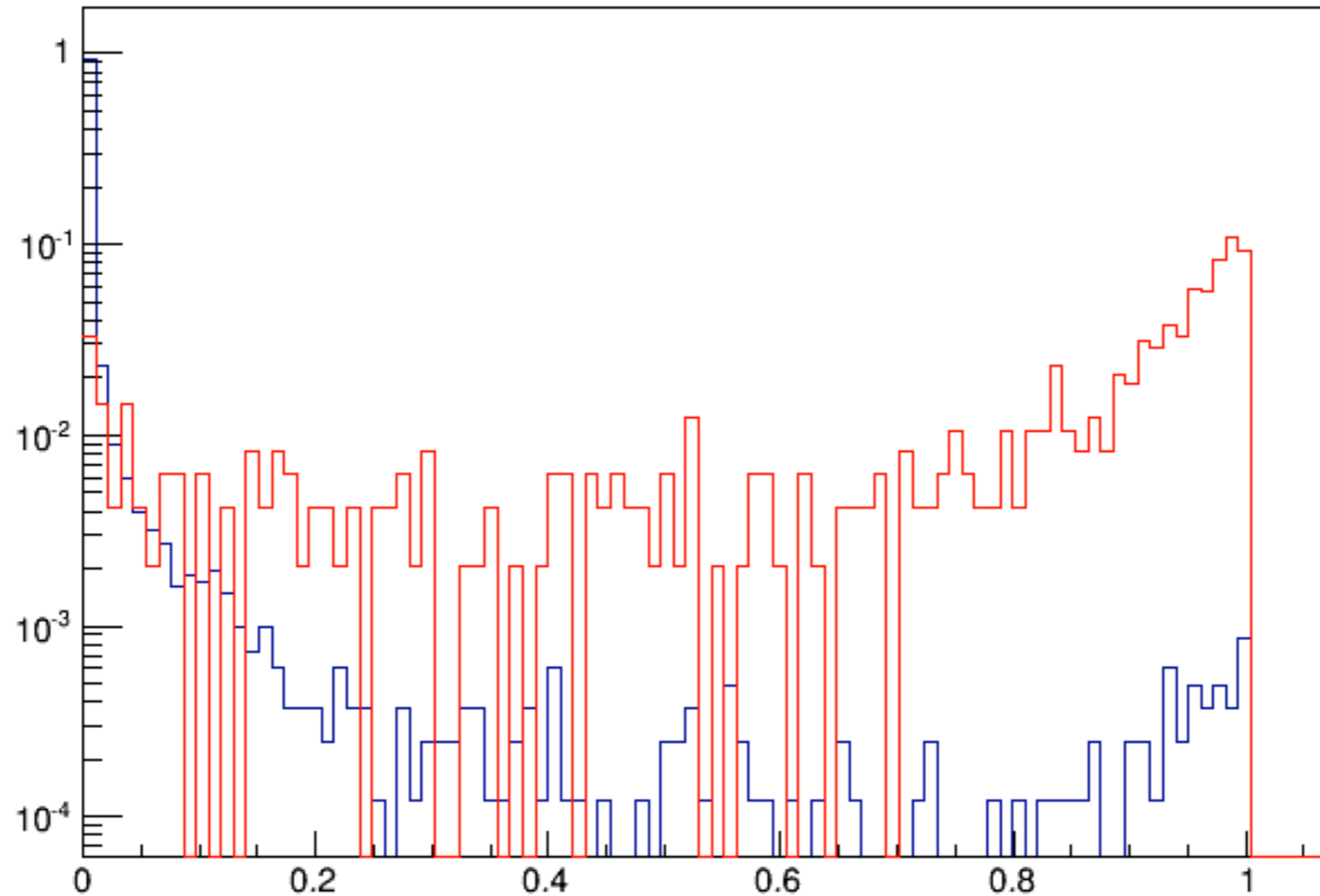


CEPC Group Meeting

2019/03/22

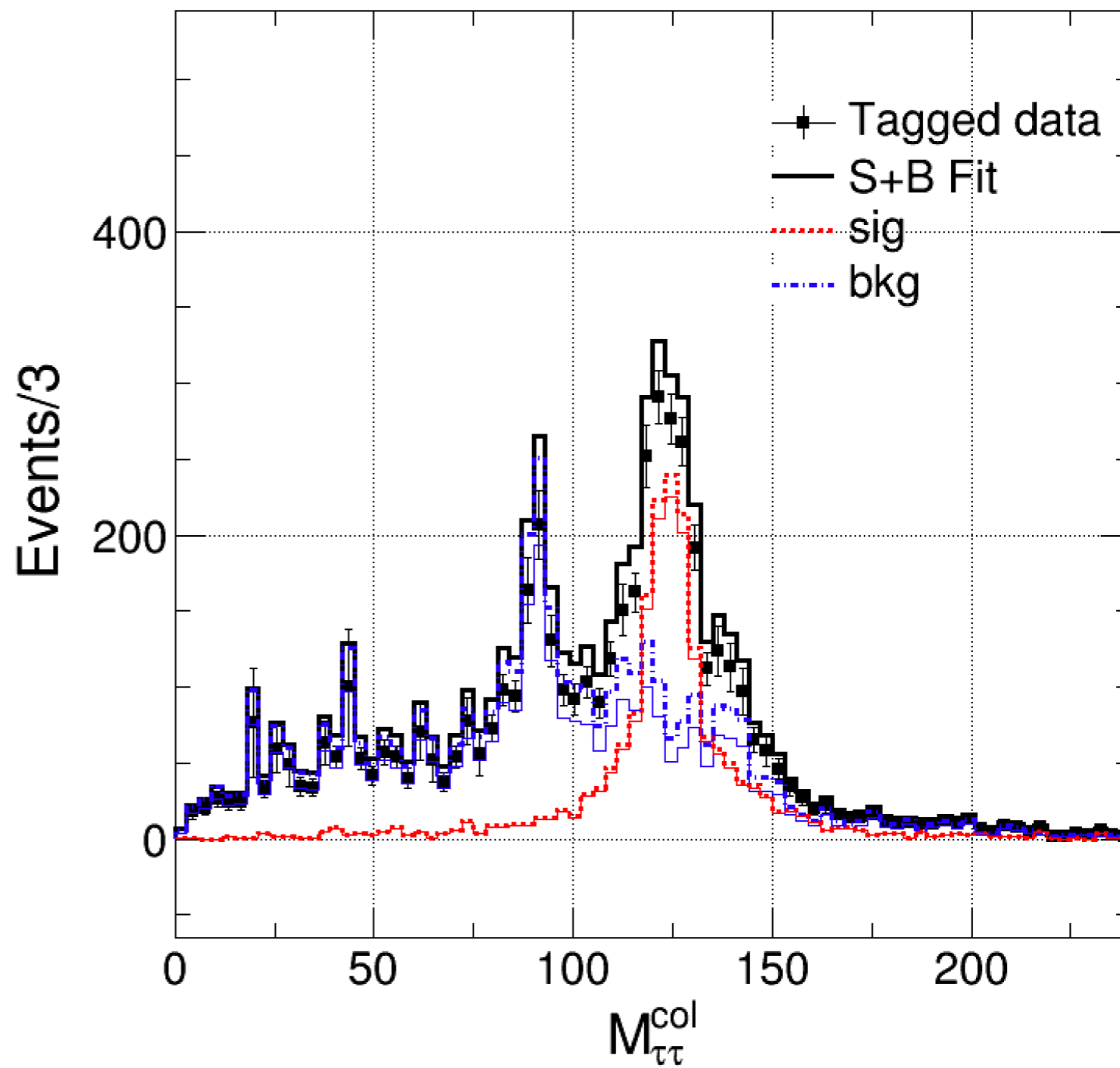
TMVA with all bkg

- TMVA bkg: ZH bkg \rightarrow SM bkg



not fixed fit
recoilM not in TMVA

acc: 3.9%



not fixed fit
recoilM not in TMVA

acc: 2.8%

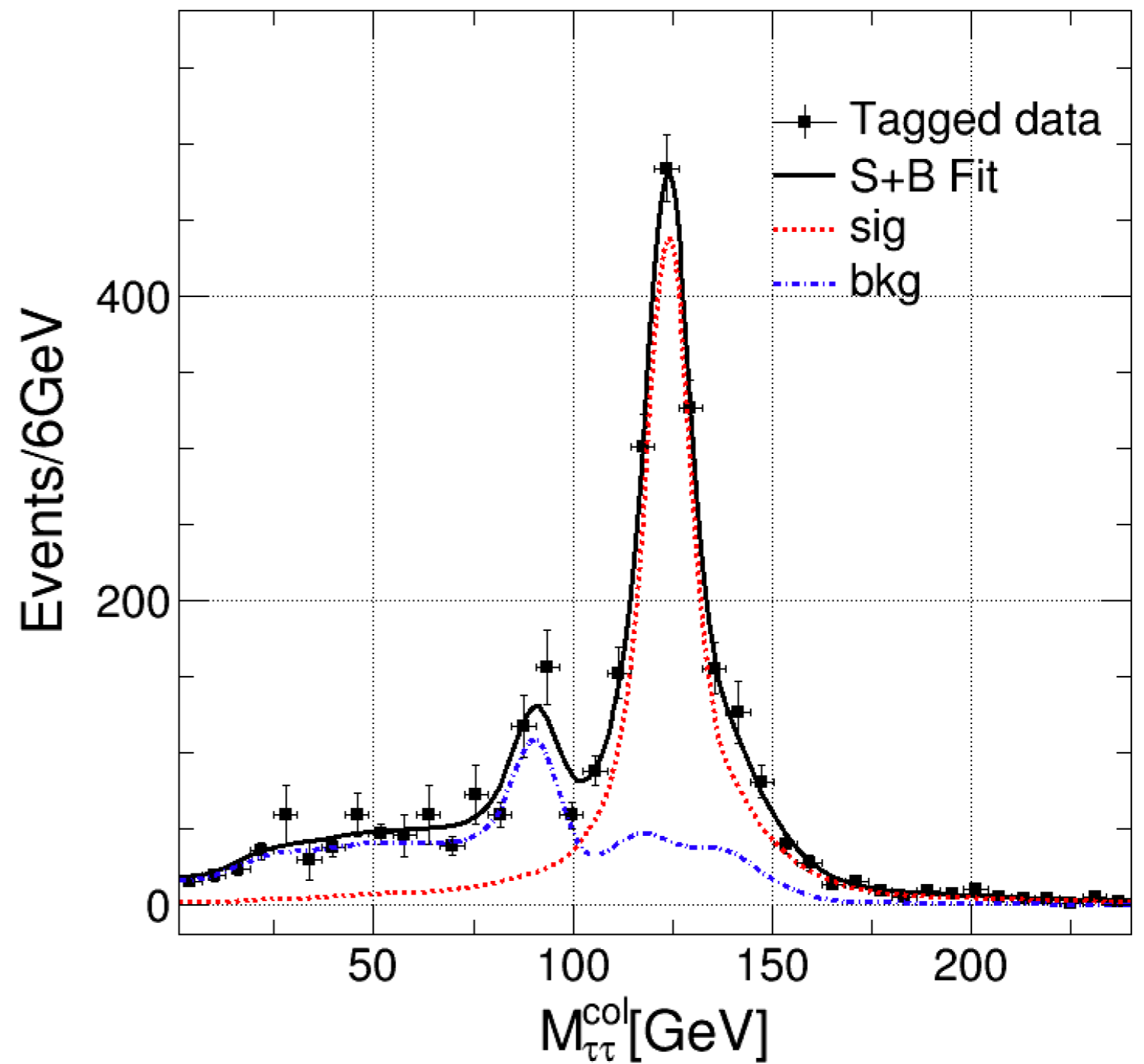


Table 4 $\mu\mu H$ cut flow

	$\mu\mu H\tau\tau$	2f	sw	sz	WW	ZZ	mixed	ZH	total Bkg	$\sqrt{S+B}/S(\%)$
total generated	2388	801152078	19517399	9072946	50826211	6389424	21839941	1102582	909900581	1263.17
$N_{\mu^+} > 1, N_{\mu^-} > 1$	2251	22894549	37923	720547	1335231	831861	1251657	567636	27639404	233.56
$115\text{GeV} < M_{recoil} < 160\text{GeV}$	2111	864849	154	155502	396485	112837	164225	3114	1697166	61.75
$60\text{GeV} < M_{invariant} < 105\text{GeV}$	2042	662042	0	31145	111376	56642	99874	987	962066	48.08
$E_{Le} < 65\text{GeV}$	2026	658199	0	17760	111340	56516	99822	957	944594	48.02
$N_{Trk}(A/B) < 6$ & $N_{Ph}(A/B) < 7$	1900	78	0	996	2576	8019	29	105	11803	6.16
BDT > 0.78	1823	0	0	264	231	3682	9	39	4225	4.26
$M_{\tau\tau}^{col} > 105\text{GeV}$	1582	0	0	76	5	1311	3	24	1419	3.46

**no fit
recoilM not in TMVA**

acc: 3.4%

