

vvh 1TeV study for DBD

ILC Physics and software meeting

Dec. 07 2012

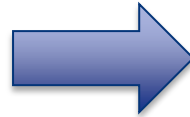
H.Ono (NDU)

Correction of my analysis

- Miss merge of background process
 - 4f_sw_sl (2nd largest contribution) ntuple creation is failed due to the too many file open after increasing processed files $vvW \rightarrow vvqq$ contribution
 - Correct and re-analyze each channel
- Check SiD results
 - Sub-percent level?

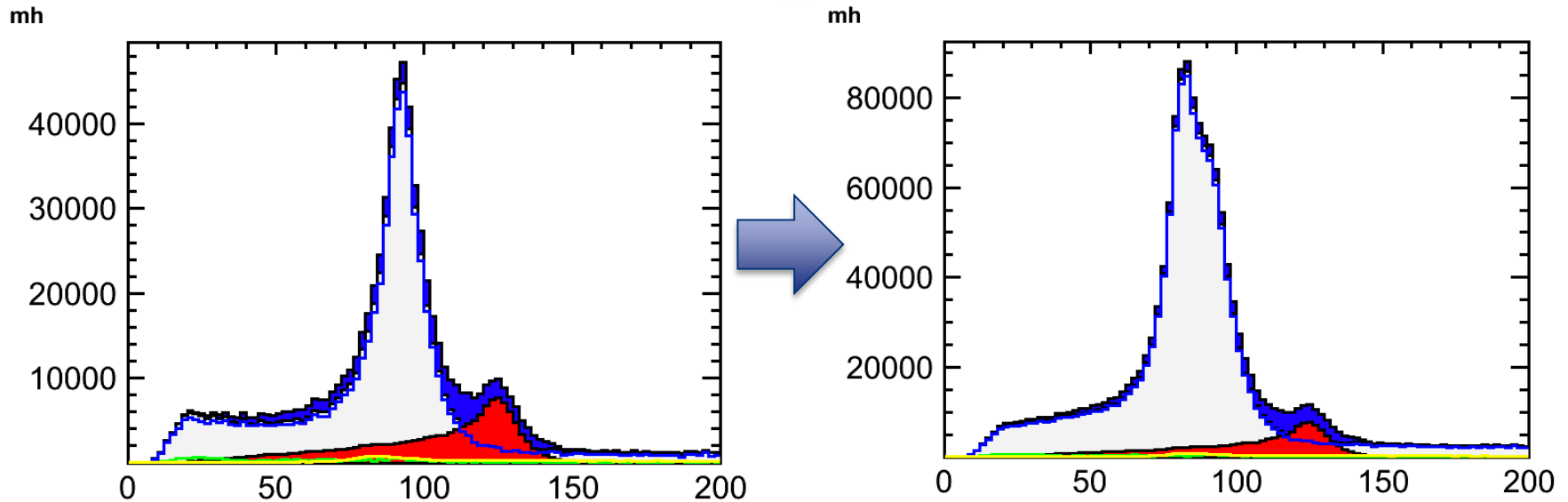
After the correction $h \rightarrow bb, cc, gg$ channel

cuts	Gen	All cuts	B-tag
h->all	223,408	71,966	51,506
h->bb	128,662	55,515	50,942
h->cc	5,998	2,966	78
h->gg	19,078	7,494	211
2f	3,890,180	1,560	133
4f	9,168,850	30,855	3,554
6f	121,842	4,218	133
BG all	13,180,900	36,633	3,821



cuts	Gen	All cuts	B-tag
h->all	223,408	71,966	51,506
h->bb	128,662	55,515	50,942
h->cc	5,998	2,966	78
h->gg	19,078	7,494	211
2f	3,890,180	1,560	133
4f	13,386,600	58,660	3,874
6f	121,842	4,218	133
BG all	17,398,700	64,438	4,140

After the corrected process



	Before	Corrected
$\sigma\text{BR}(bb)$	0.44%	0.46
$\sigma\text{BR}(cc)$	3.8%	4.3%
$\sigma\text{BR}(gg)$	2.6%	3.2%