

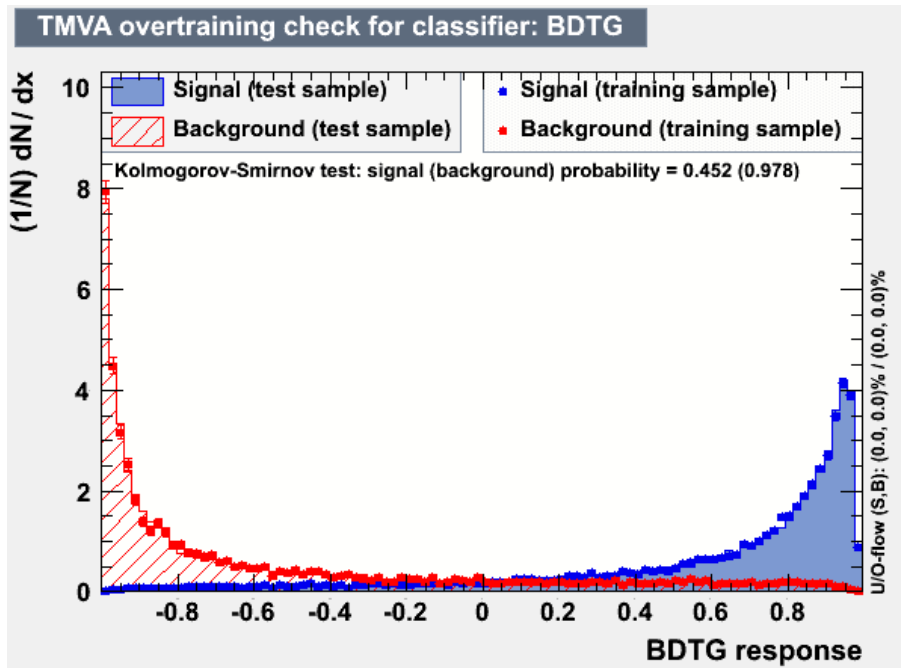
update on tth study

Yuji Sudo

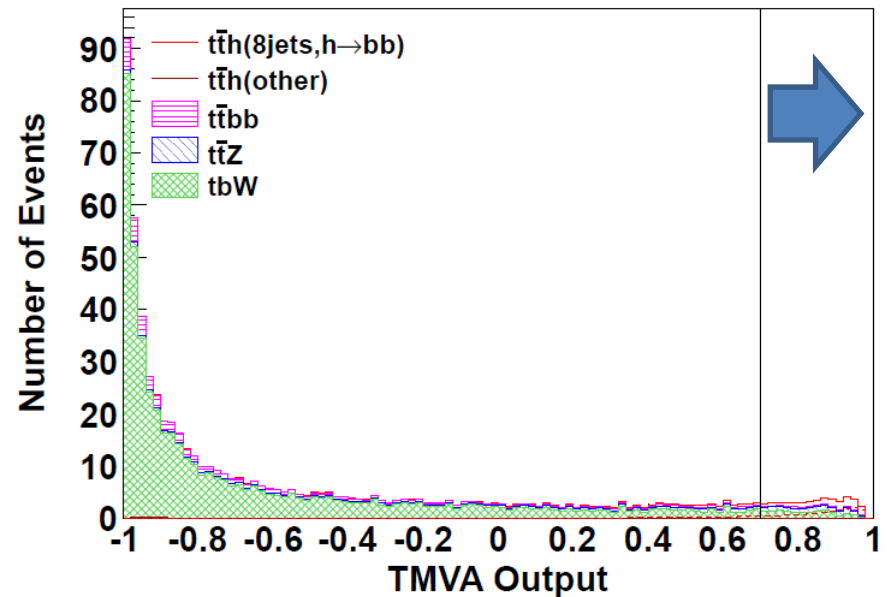
8jet, TMVA BDTG

TMVA output using BDTG method

Training result looks good



stack plot



500 GeV

500 fb⁻¹

| | TMVA BDTG | cut base |
|-------------|-----------|------------------|
| S/sqrt(S+B) | 2.39 | 2.16 (2.11@LCWS) |

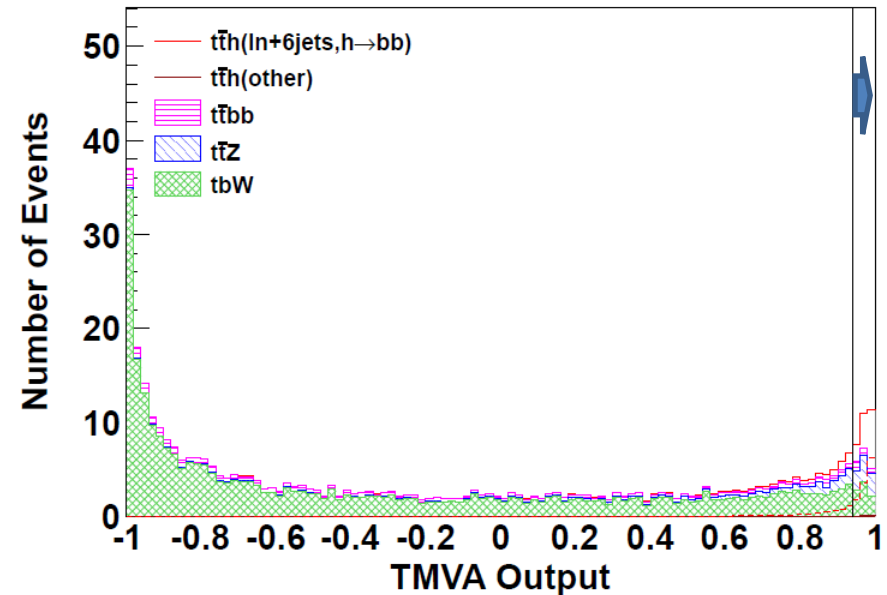
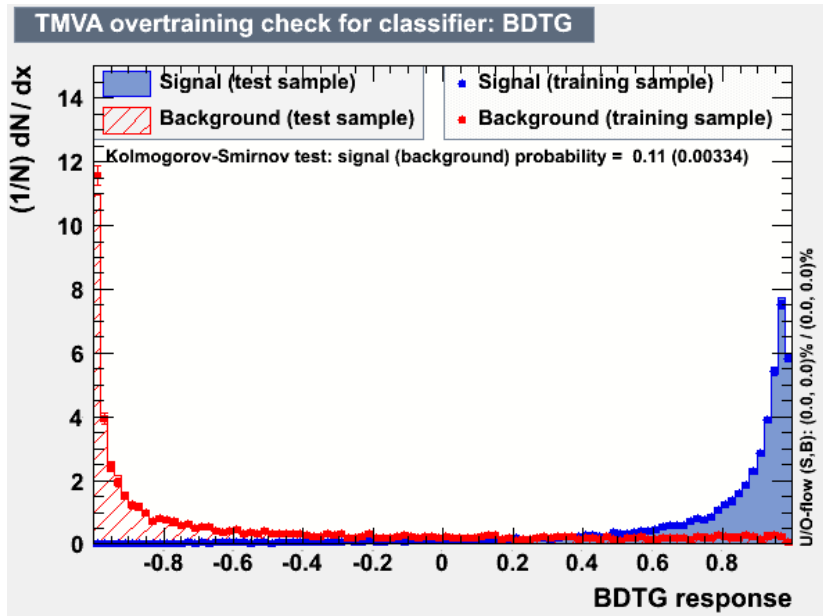
10 % improvement by BDTG method of TMVA.

In+6jet, TMVA BDTG

TMVA output using BDTG method

BDTG option settings are same as 8jet mode.
Background shape looks a bit over-training.

stack plot



500 GeV
500 fb⁻¹

| | TMVA BDTG | cut base |
|-------------|-----------|------------------|
| S/sqrt(S+B) | 2.20 | 2.11 (2.00@LCWS) |

need to tune parameters of BDTG option.