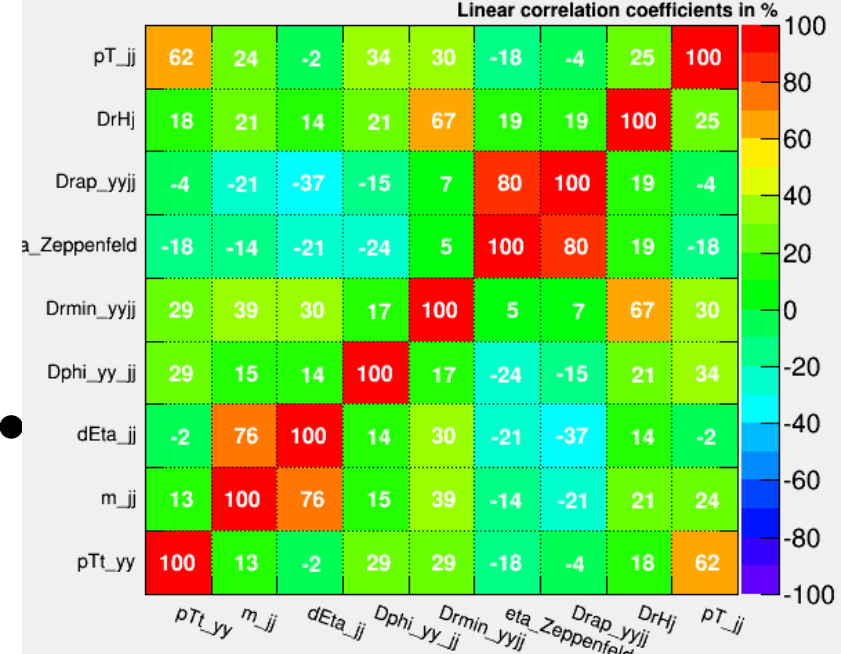
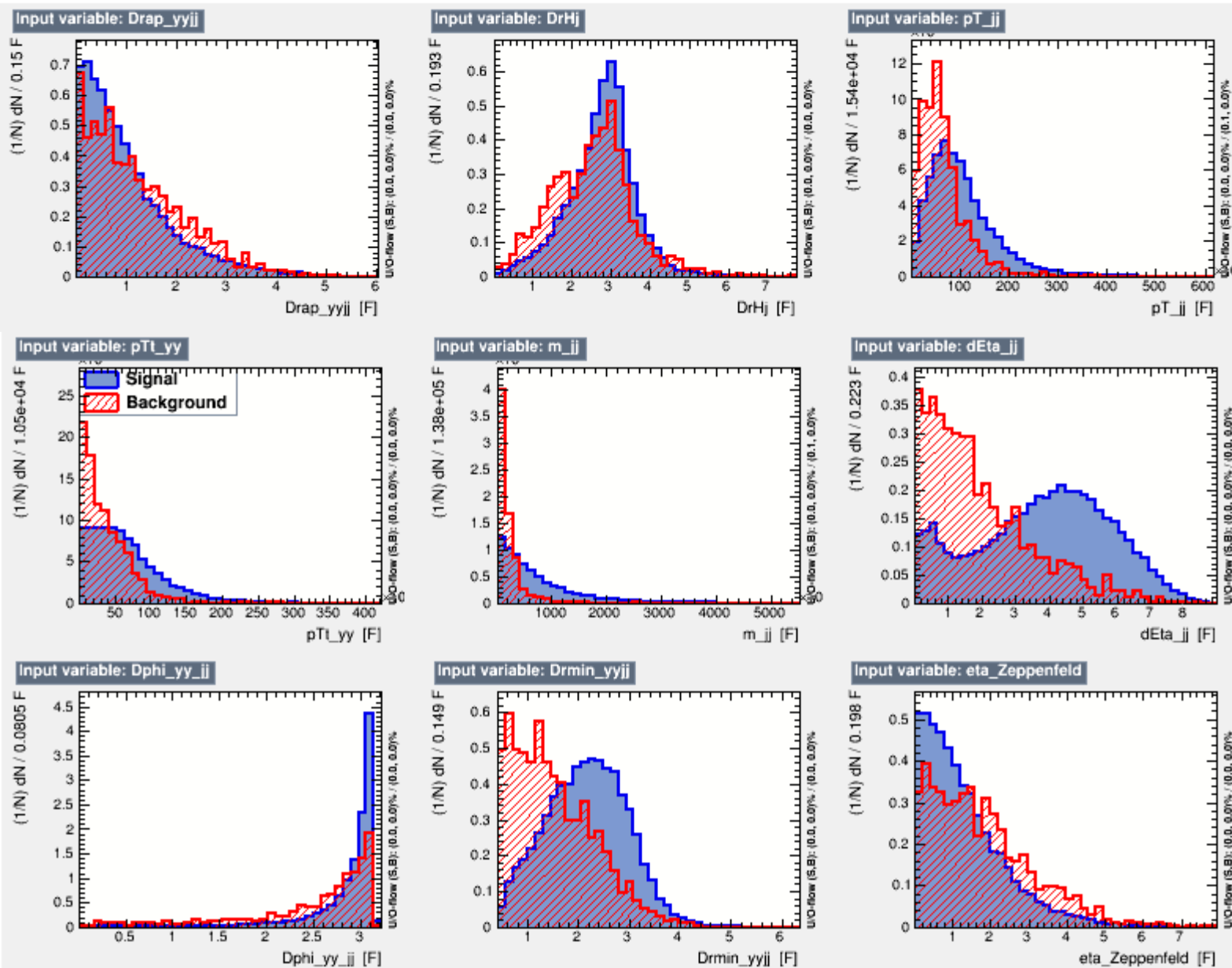
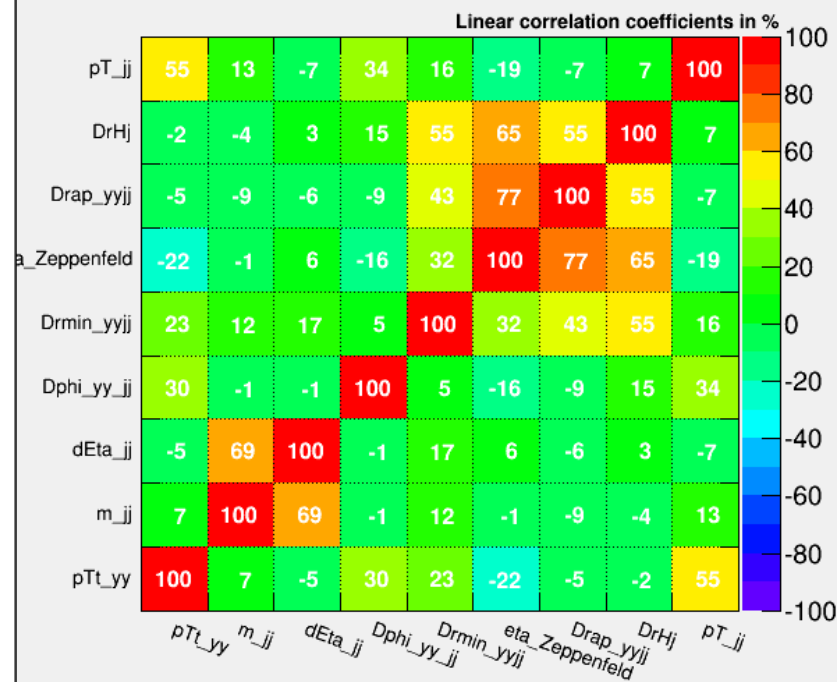


Some preliminary results for  
VBF  $H \rightarrow \gamma\gamma$  mva optimization

# Variables used

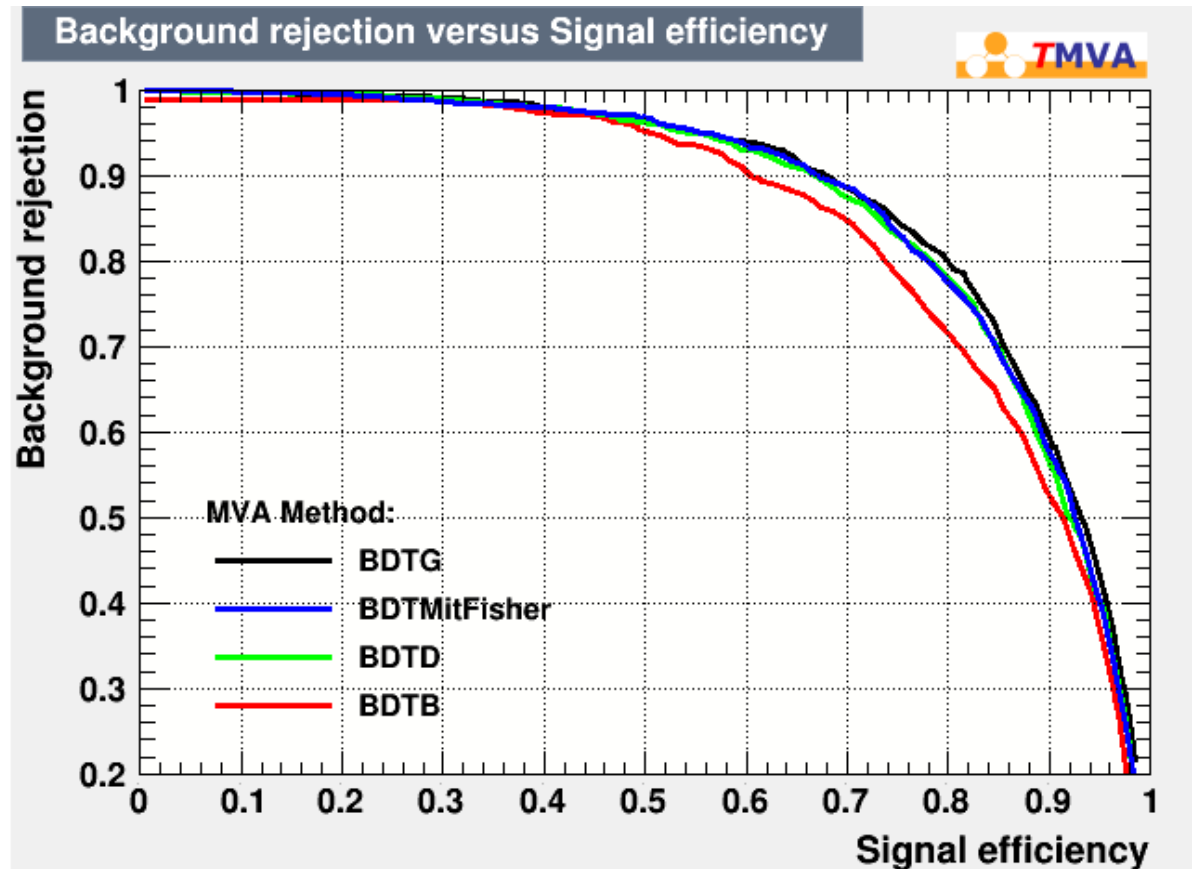
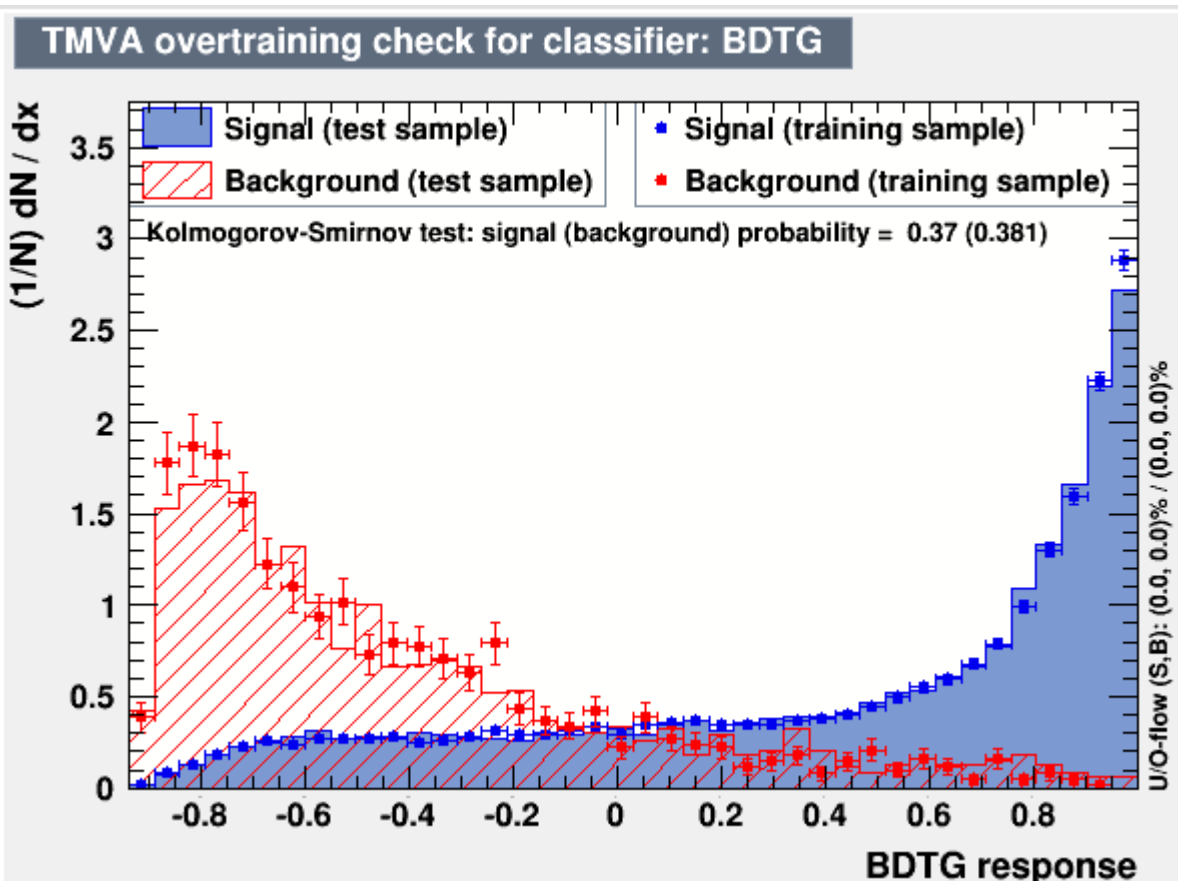


Correlation Matrix (background)



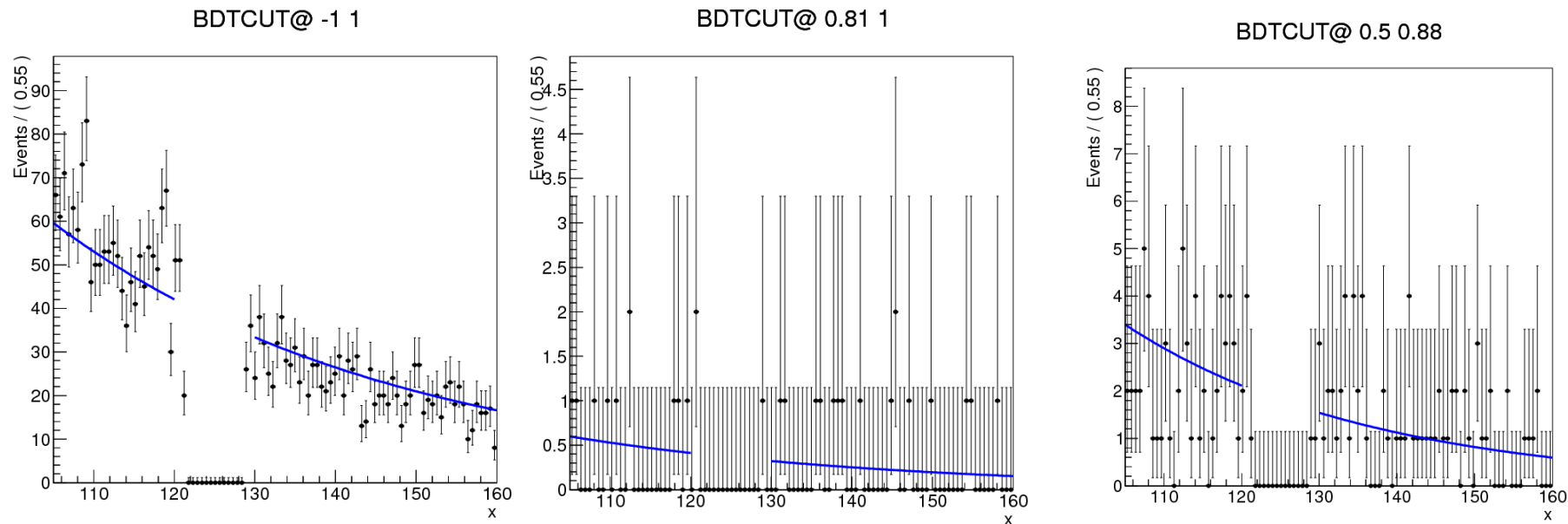
# Training result

- Different type of algorithms was teste
- BDTG still works best



# Optimization

- On BKG continue to fit BKG shape for different BDT cut



- The fit will be not reliable when the statistic goes down
- So I use some same method as we did for HH->WWyy analysis
  - Fix the value to 0.12