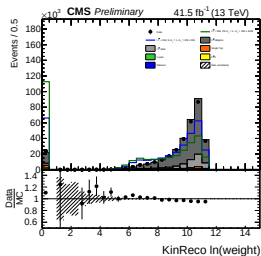


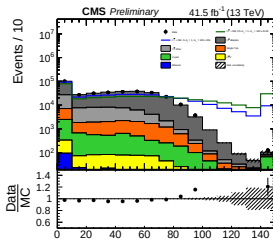
combined-channel after at least 1 b-tagged jet



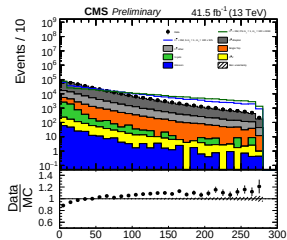
$\ln_kinReco_weight$



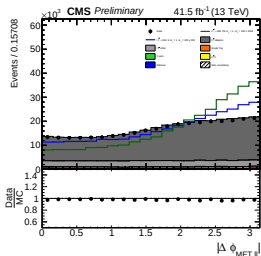
$mt2_ll$



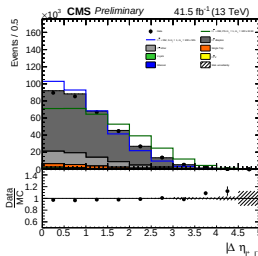
METSig



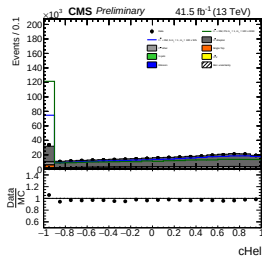
$\delta\Phi_{dilep_MET}$



$\delta\eta_{ll}^{M_{l2(II)}}$



$cHel^{MET_sig}$

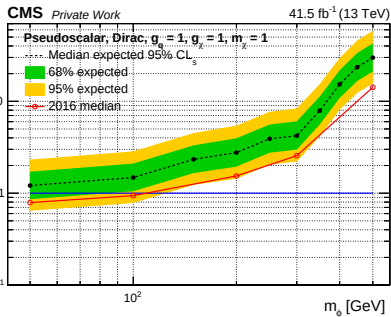


limits full. stat. PS/S mchi 1, with systematics

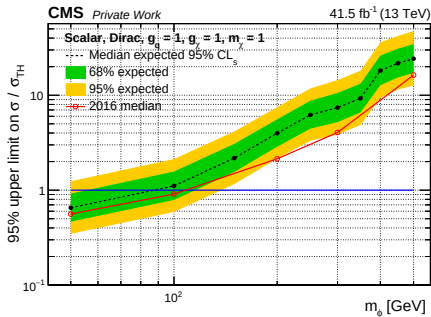


last week's status

PS mchi 1



S mchi 1

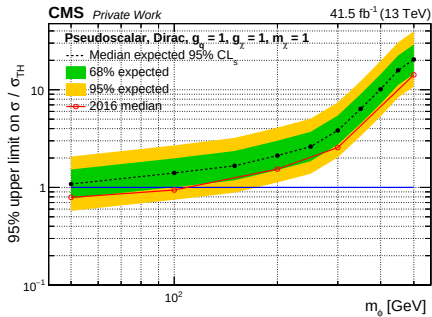


limits full. stat. PS/S mchi 1, with systematics

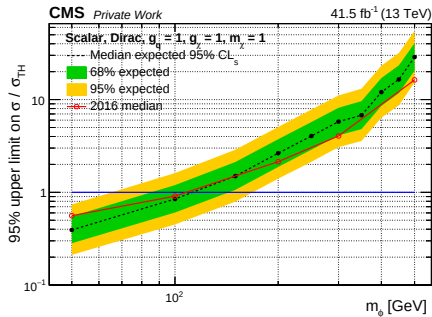


2016 setting status

PS mchi 1



S mchi 1

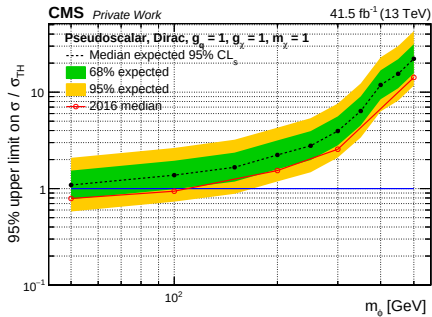


limits full. stat. PS/S mchi 1, Nominal, step 7

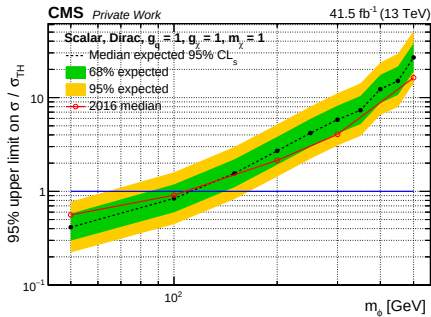


without $\ln_{\text{kinReco_weight}}$

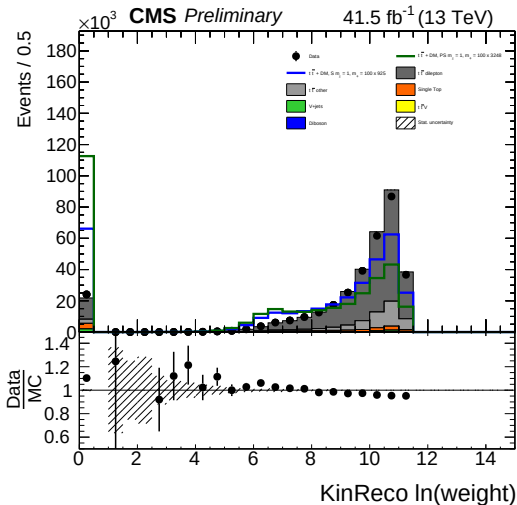
PS mchi 1



S mchi 1



Cut on $\ln_{\text{kinReco_weight}}$ at 5. for BDT training



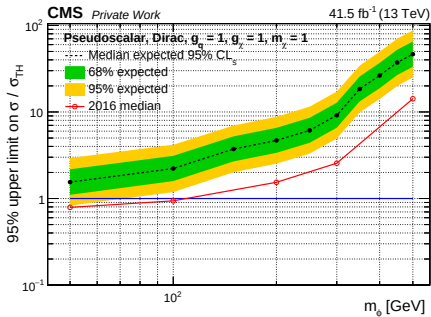
- more than doubled speed of all BDT training times
- ROC curve performance increases considerably

limits full. stat. PS/S mchi 1, Nominal, step 7b

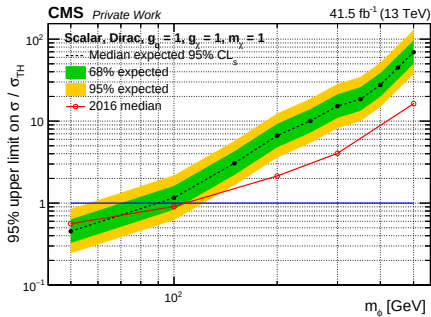


with TCut away $\ln_kinReco_weight < 5$

PS mchi 1



S mchi 1

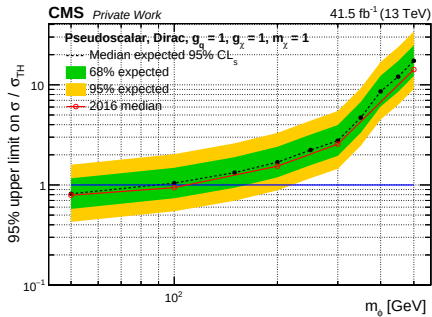


limits full. stat. PS/S mchi 1, Nominal, step 7b

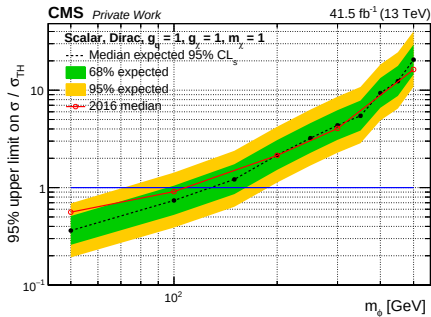


with TCut away $\ln_kinReco_weight > 5$

PS mchi 1



S mchi 1

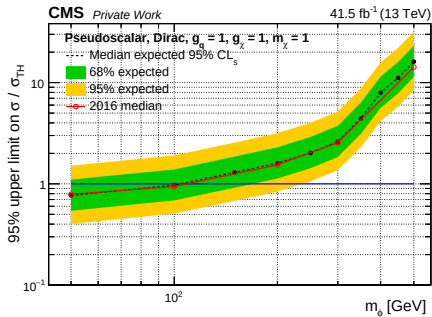


limits full. stat. PS/S mchi 1, Nominal, step 7b

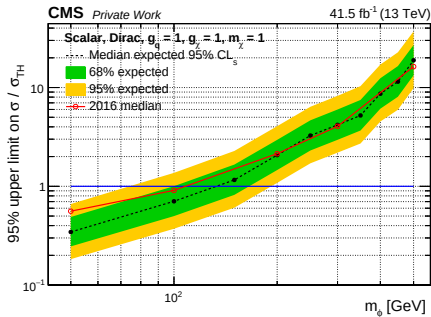


with TCut on $\ln_{\text{kinReco_weight}}$ +step7b

PS mchi 1



S mchi 1

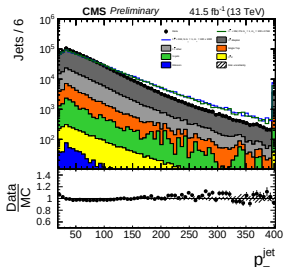


Backup

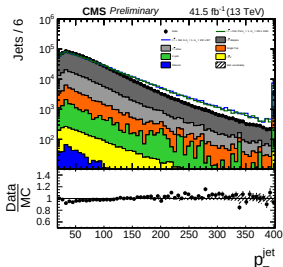
combined-channel after at least 1 b-tagged jet



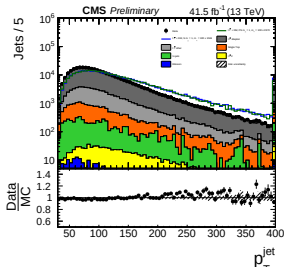
jet pt PuppiJets, Puppi Met



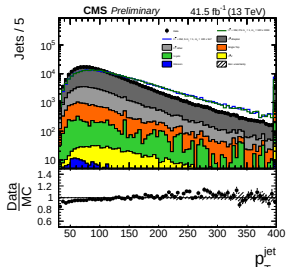
jet pt, PF jets, PuppiMet,



1st jet pt PuppiJets, Puppi Met



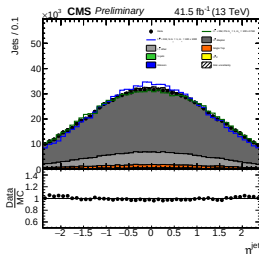
1st jet pt, PF jets, PuppiMet,



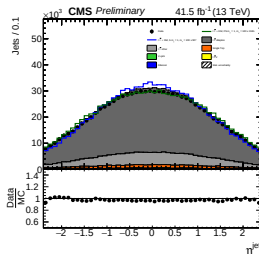
combined-channel after at least 1 b-tagged jet



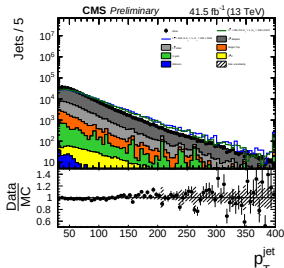
jet eta PuppiJets, Puppi Met



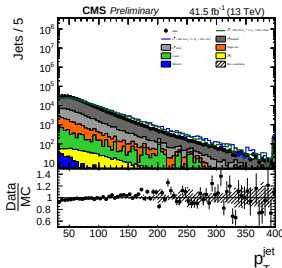
jet eta, PF jets, PuppiMet,



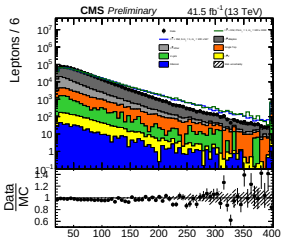
2nd jet pt PuppiJets, Puppi Met



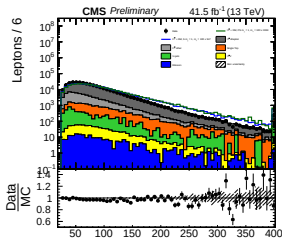
2nd jet pt, PF jets, PuppiMet,



lepton pt, PF jets, PuppMet,



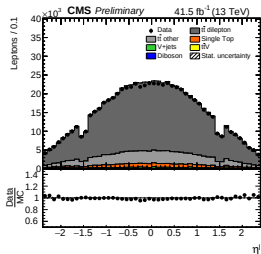
1st lepton p_T , P_T^{jets}



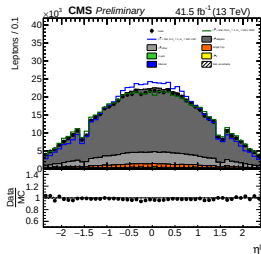
combined-channel after at least 1 b-tagged jet



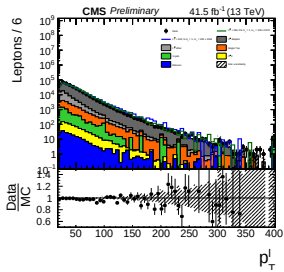
lepton eta PuppiJets, Puppi Met



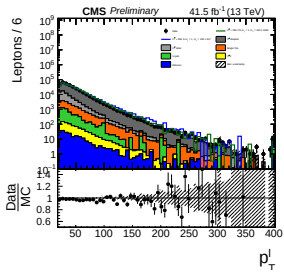
lepton eta, PF jets, PuppiMet,



2nd lepton pt PuppiJets, Puppi Met
PuppiMet,



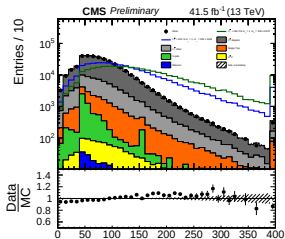
2nd lepton pt, PF jets,



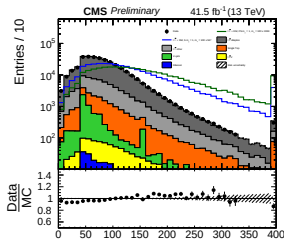
combined-channel after at least 1 b-tagged jet



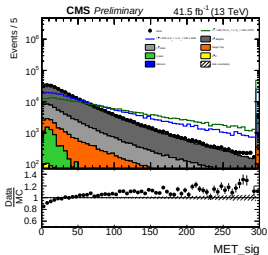
MET PuppiJets, Puppi Met



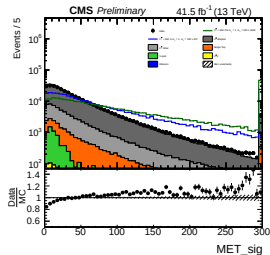
MET, PF jets, PuppiMet,



METSig PuppiJets, Puppi Met



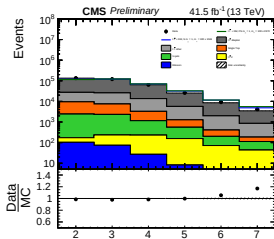
METSig, PF jets, PuppiMet,



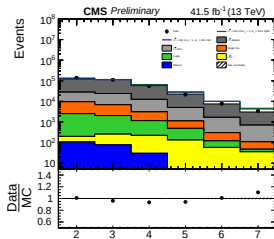
combined-channel after at least 1 b-tagged jet



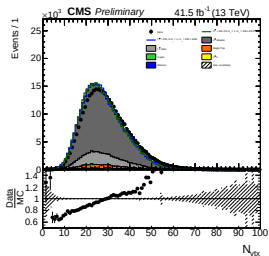
jet mult PuppiJets, Puppi Met



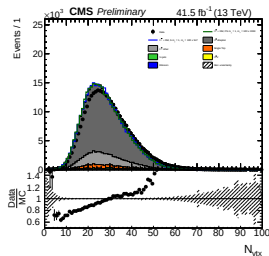
jet mult, PF jets, PuppiMet,



vertMulti PuppiJets, Puppi Met



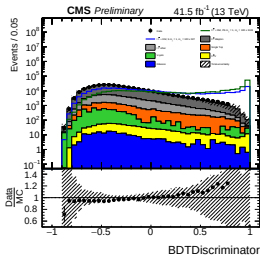
vertMulti, PF jets, PuppiMet,



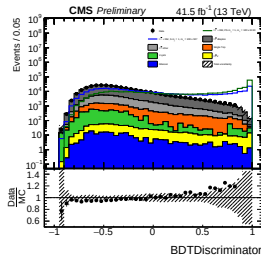
BDT Discriminants combined before TCut, step7



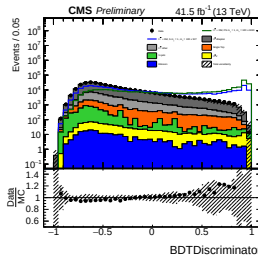
PS, 1, 50 :: AUC: 0.765



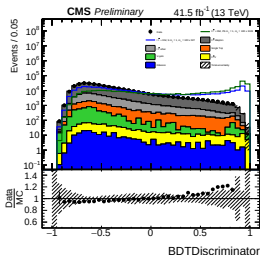
PS, 1, 100 :: AUC: 0.793



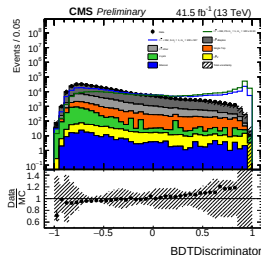
PS, 1, 200 :: AUC: 0.821



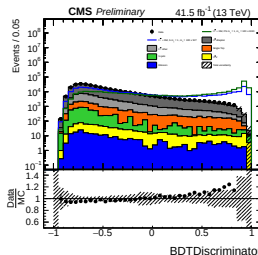
PS, 1, 300 :: AUC: 0.834



PS, 1, 400 :: AUC: 0.850



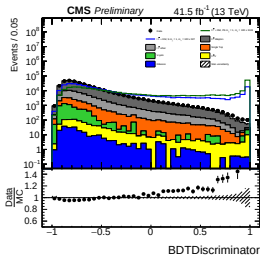
PS, 1, 500 :: AUC: 0.857



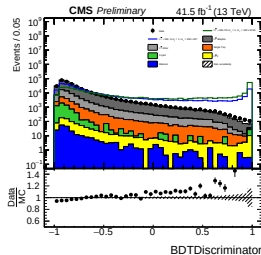
BDT Discriminants combined after TCut away in kinReco



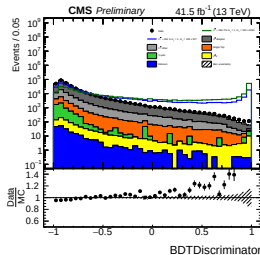
PS, 1, 50 :: AUC: 0.908



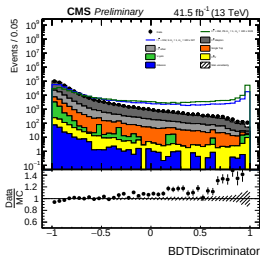
PS, 1, 100 :: AUC: 0.928



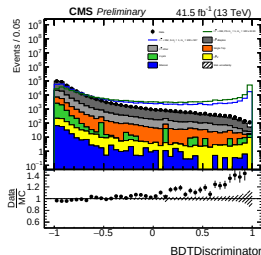
PS, 1, 200 :: AUC: 0.941



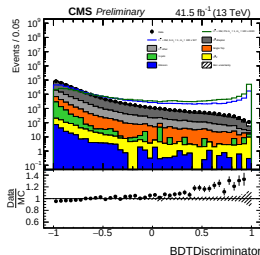
PS, 1, 300 :: AUC: 0.949



PS, 1, 400 :: AUC: 0.956



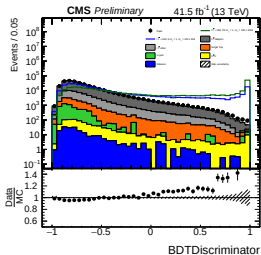
PS, 1, 500 :: AUC: 0.957



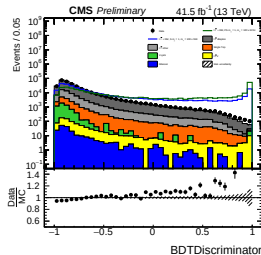
BDT Discriminants combined after TCut, step7b



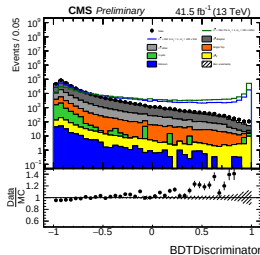
PS, 1, 50 :: AUC: 0.908



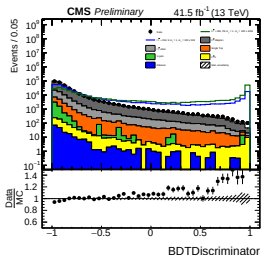
PS, 1, 100 :: AUC: 0.928



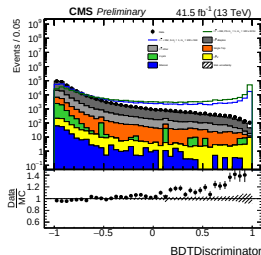
PS, 1, 200 :: AUC: 0.941



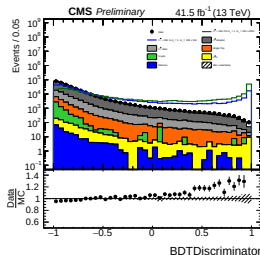
PS, 1, 300 :: AUC: 0.949



PS, 1, 400 :: AUC: 0.956



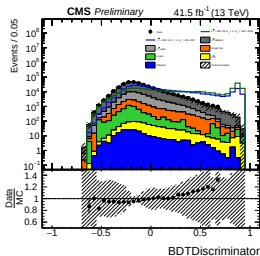
PS, 1, 500 :: AUC: 0.957



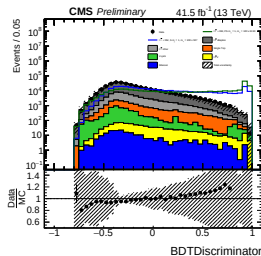
BDT Discriminants combined before TCut, step7



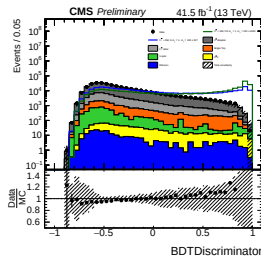
S, 1, 50 :: AUC: 0.641



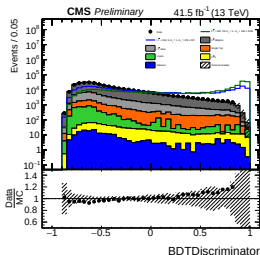
S, 1, 100 :: AUC: 0.708



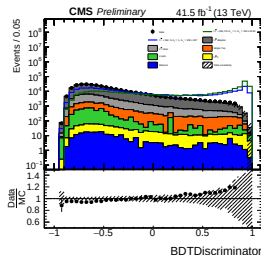
S, 1, 200 :: AUC: 0.788



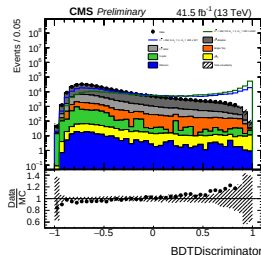
S, 1, 300 :: AUC: 0.827



S, 1, 400 :: AUC: 0.842



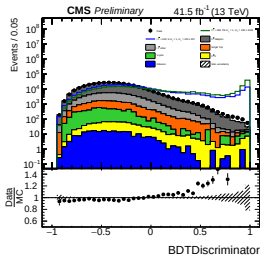
S, 1, 500 :: AUC: 0.856



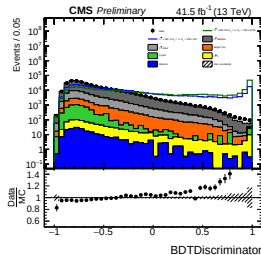
BDT Discriminants combined after TCut, step7



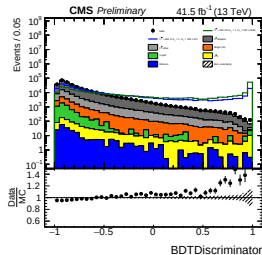
S, 1, 50 :: AUC: 0.784



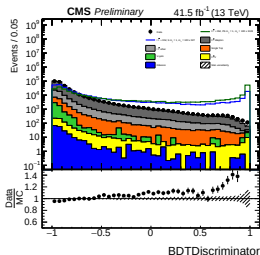
S, 1, 100 :: AUC: 0.862



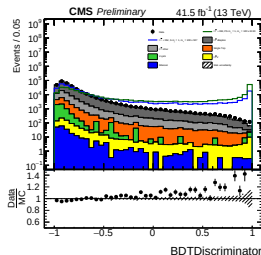
S, 1, 200 :: AUC: 0.923



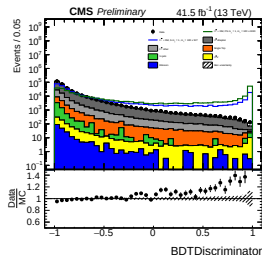
S, 1, 300 :: AUC: 0.949



S, 1, 400 :: AUC: 0.953



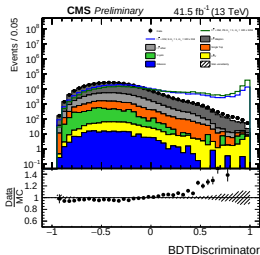
S, 1, 500 :: AUC: 0.962



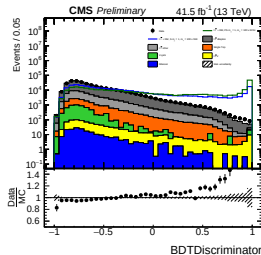
BDT Discriminants combined after TCut, step7b



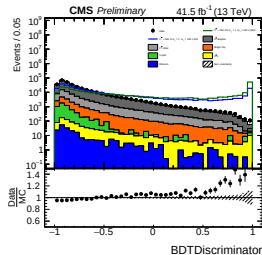
S, 1, 50 :: AUC: 0.784



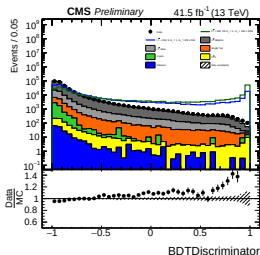
S, 1, 100 :: AUC: 0.862



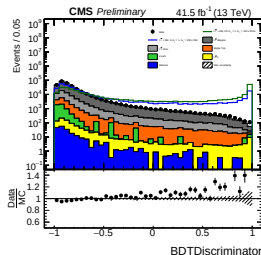
S, 1, 200 :: AUC: 0.923



S, 1, 300 :: AUC: 0.949



S, 1, 400 :: AUC: 0.953



S, 1, 500 :: AUC: 0.962

