

Weekly Meeting

High level Trigger

Shiwen An May 27 2022

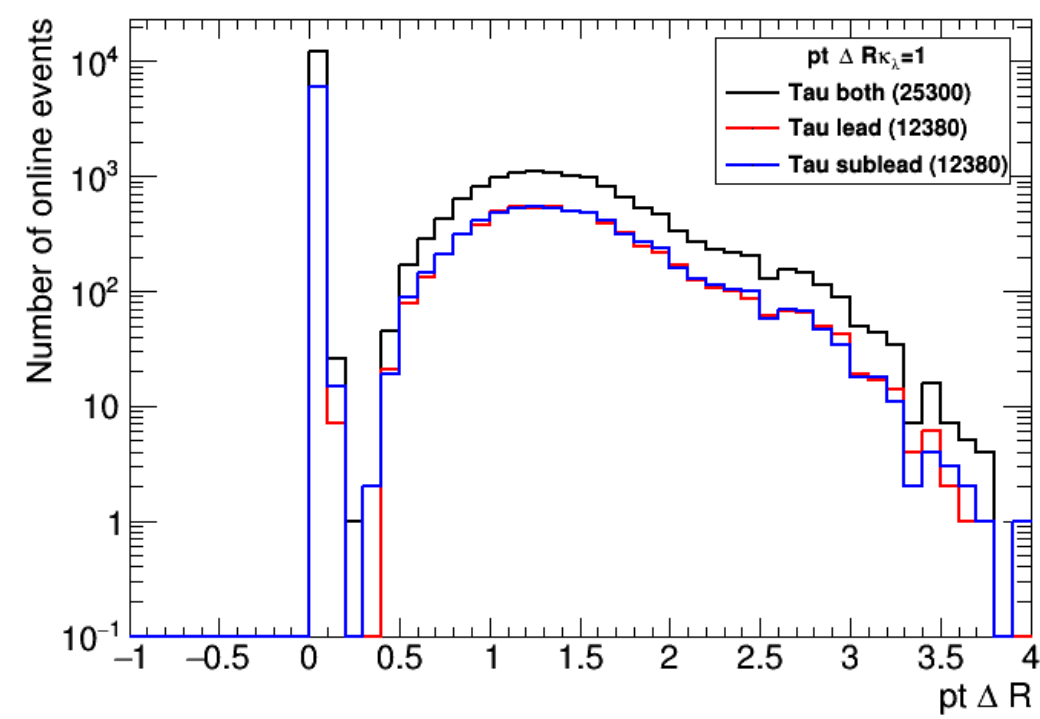
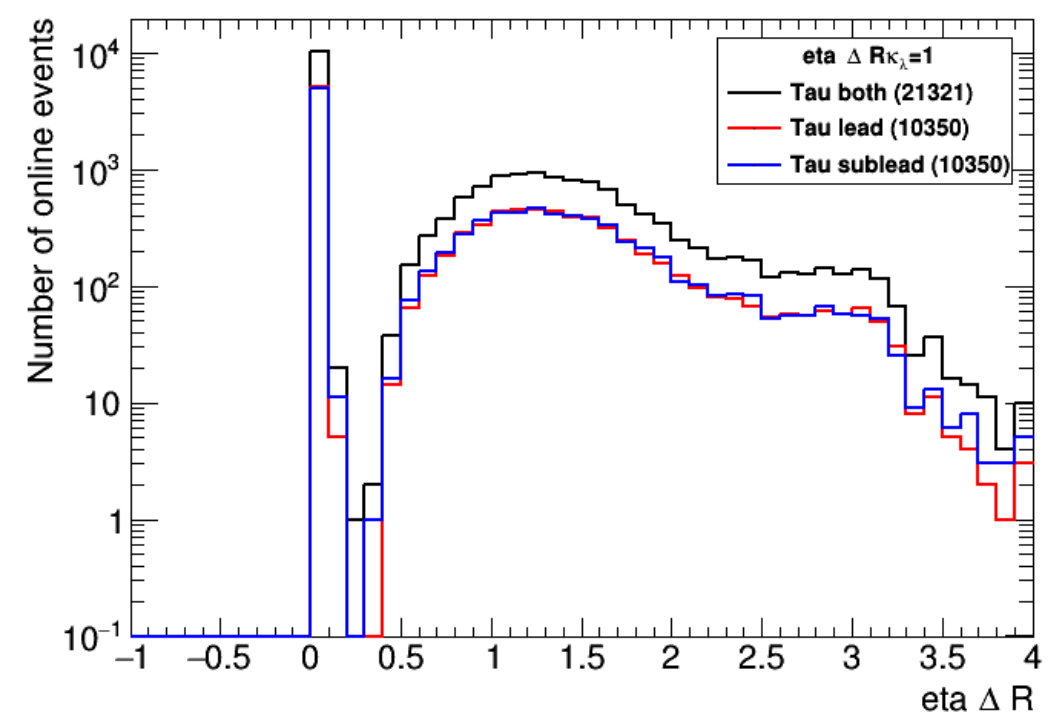
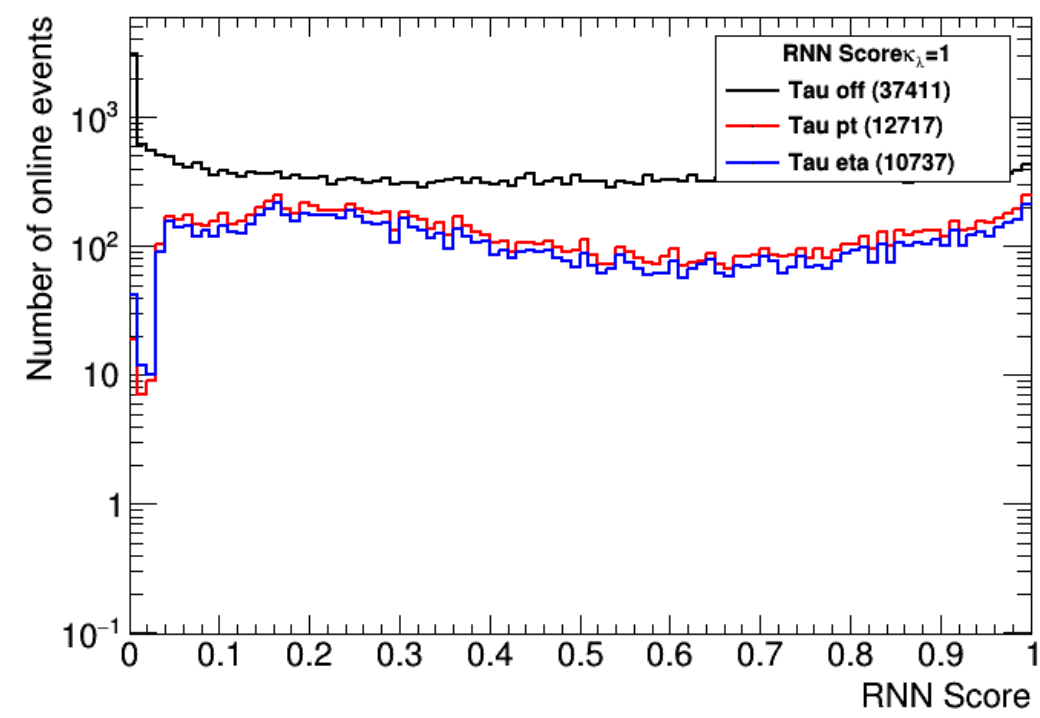
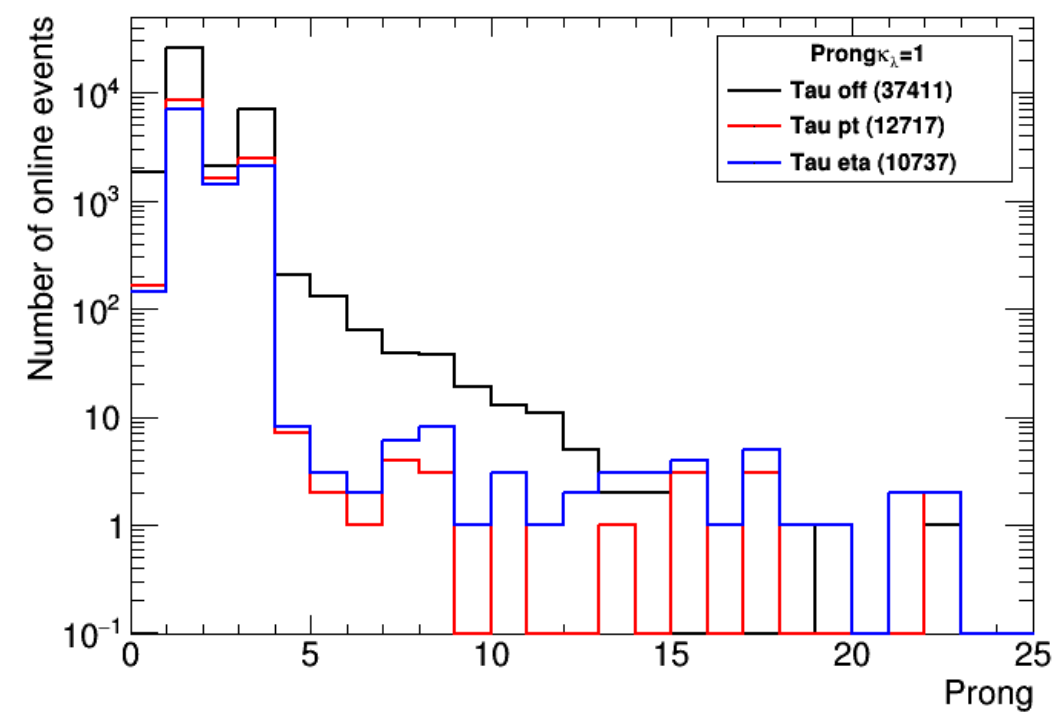
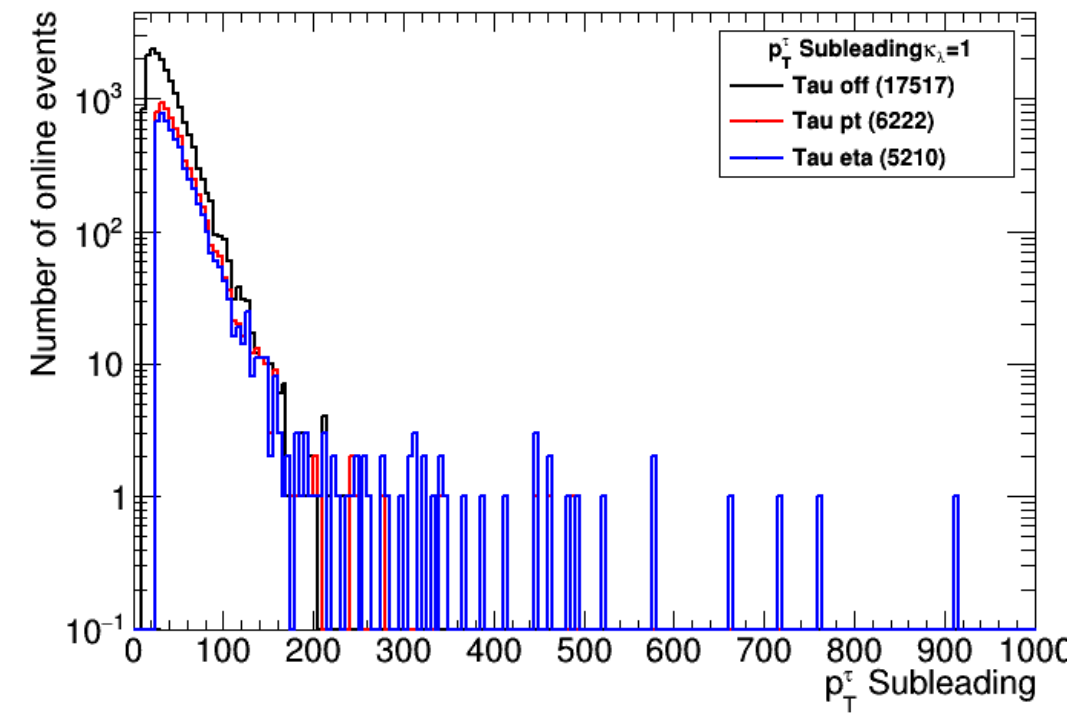
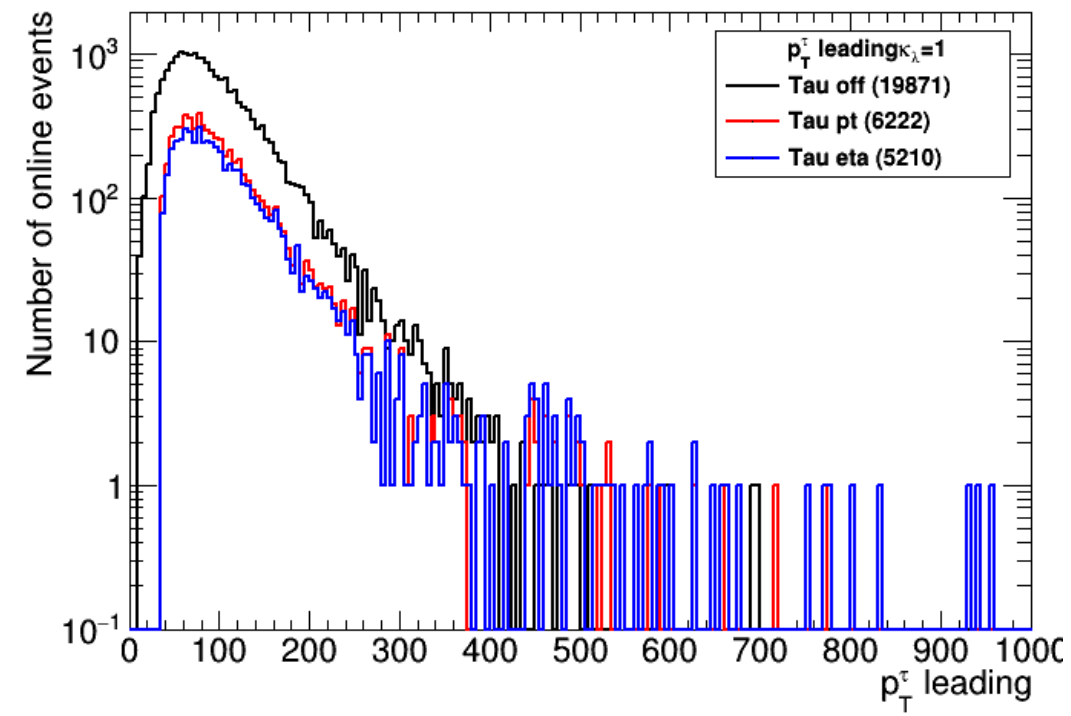
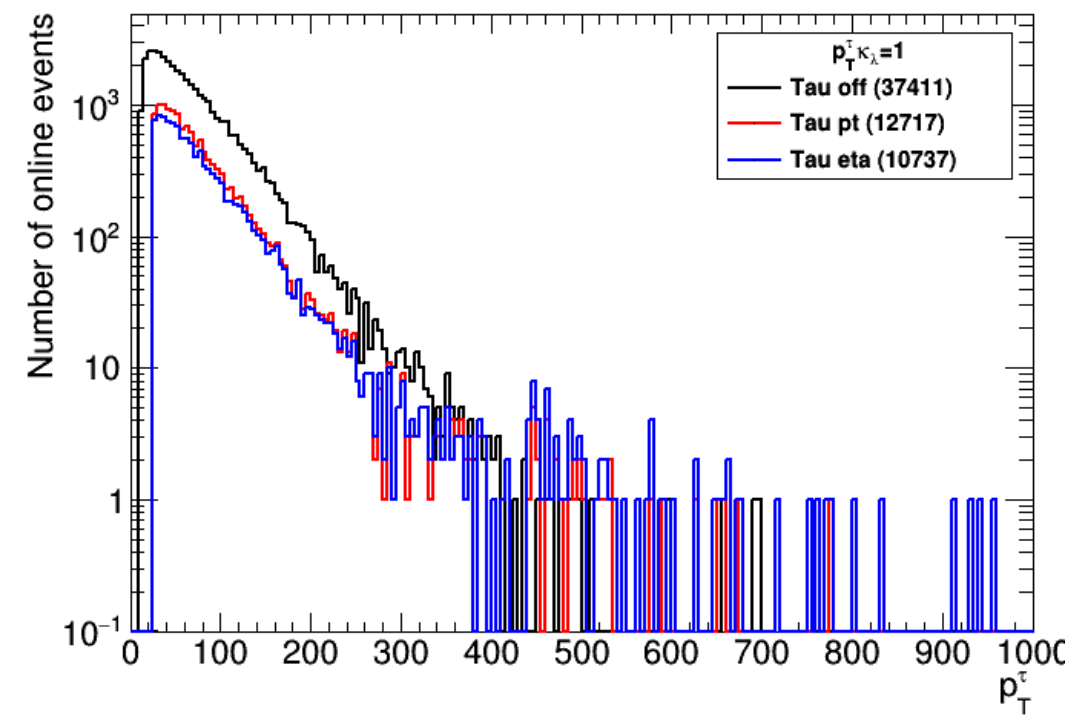
HLT Efficiency Study based on different trigger combination

filename	Trigger	L1/HLT	Tau data
r22_Pass.root	R22	HLT	Pass
r22_PassFail.root	R22	HLT	Pass+Fail
Tau0_Pass.root	Tau0	HLT	Pass
Tau0_PassFail.root	Tau0	HLT	Pass+Fail

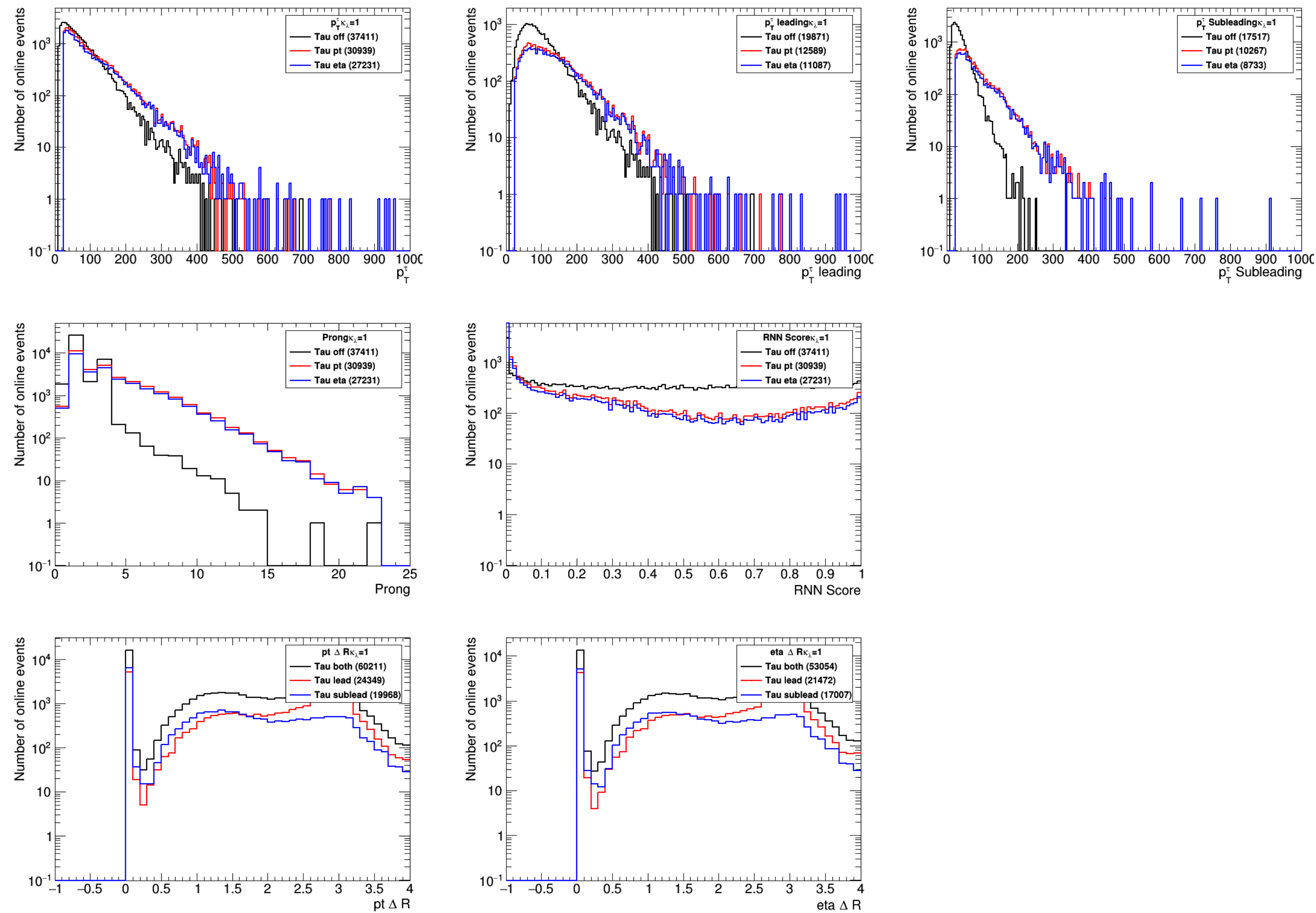
TrigDefs::includeFailedDecisions -> include both passed and failed
TrigDefs::Physics-> Include only Passed

```
trigL1pT="L1_DR-TAU20ITAU12I-J25";
trigL1eta="L1_TAU20IM_2TAU12IM_4J12.0ETA25";
trigHLTpT="HLT_tau35_mediumRNN_tracktwoMVA_tau25_mediumRNN_tracktwoMVA_03dR30_L1DR-TAU20ITAU12I-J25";
trigHLTptr22="HLT_tau35_mediumRNN_tracktwoMVA_tau25_mediumRNN_tracktwoMVA_03dRAB30_L1DR-TAU20ITAU12I-J25";
trigHLTeta="HLT_tau35_mediumRNN_tracktwoMVA_tau25_mediumRNN_tracktwoMVA_L1TAU20IM_2TAU12IM_4J12.0ETA25";
trigHLTetar22="HLT_tau35_mediumRNN_tracktwoMVA_tau25_mediumRNN_tracktwoMVA_03dRAB_L1TAU20IM_2TAU12IM_4J12p0ETA25";
trigHLTptTau0="HLT_tau0_mediumRNN_tracktwoMVABDT_tau0_mediumRNN_tracktwoMVABDT_03dRAB30_L1DR-TAU20ITAU12I-J25";
trigHLTetaTau0="HLT_tau0_mediumRNN_tracktwoMVABDT_tau0_mediumRNN_tracktwoMVABDT_03dRAB_L1TAU20IM_2TAU12IM_4J12p0ETA25";
```

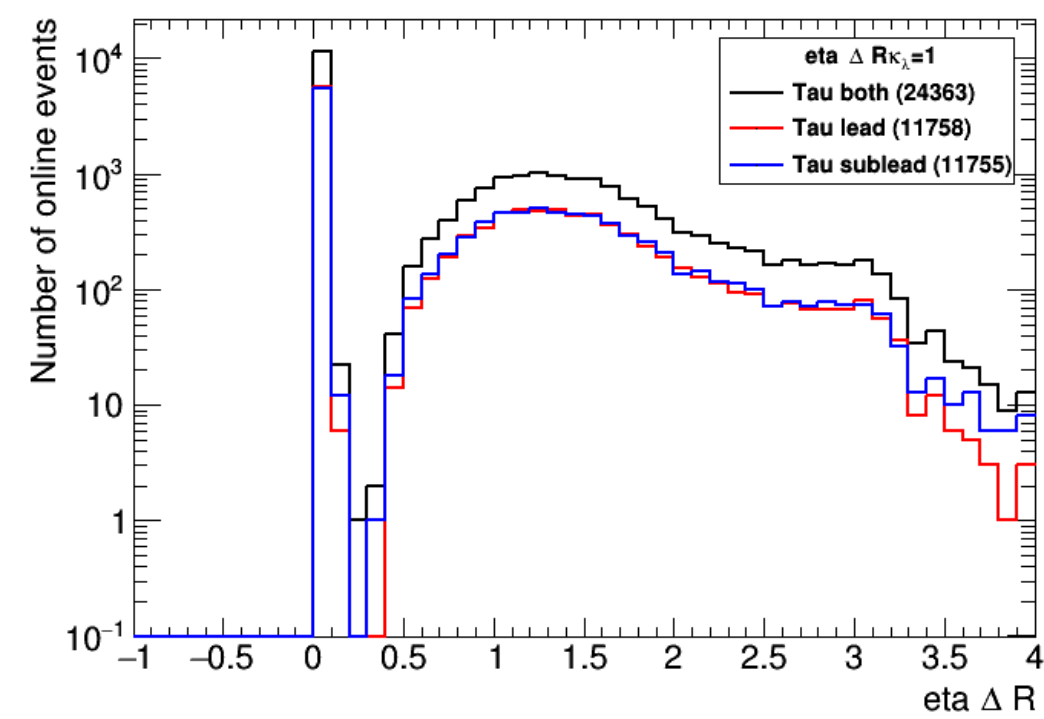
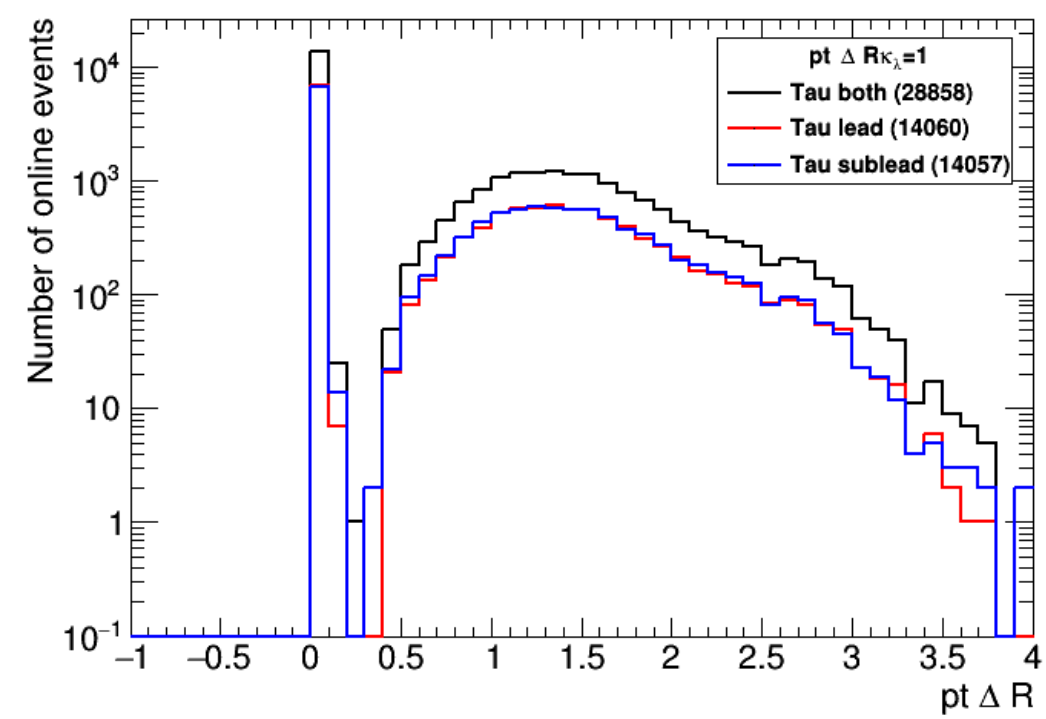
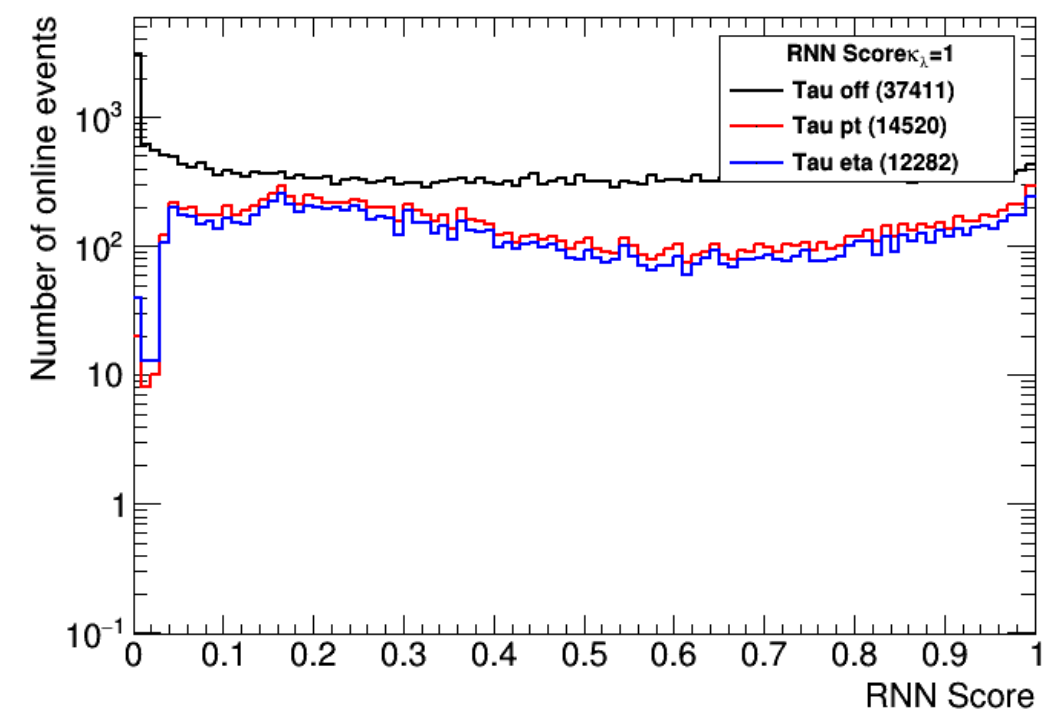
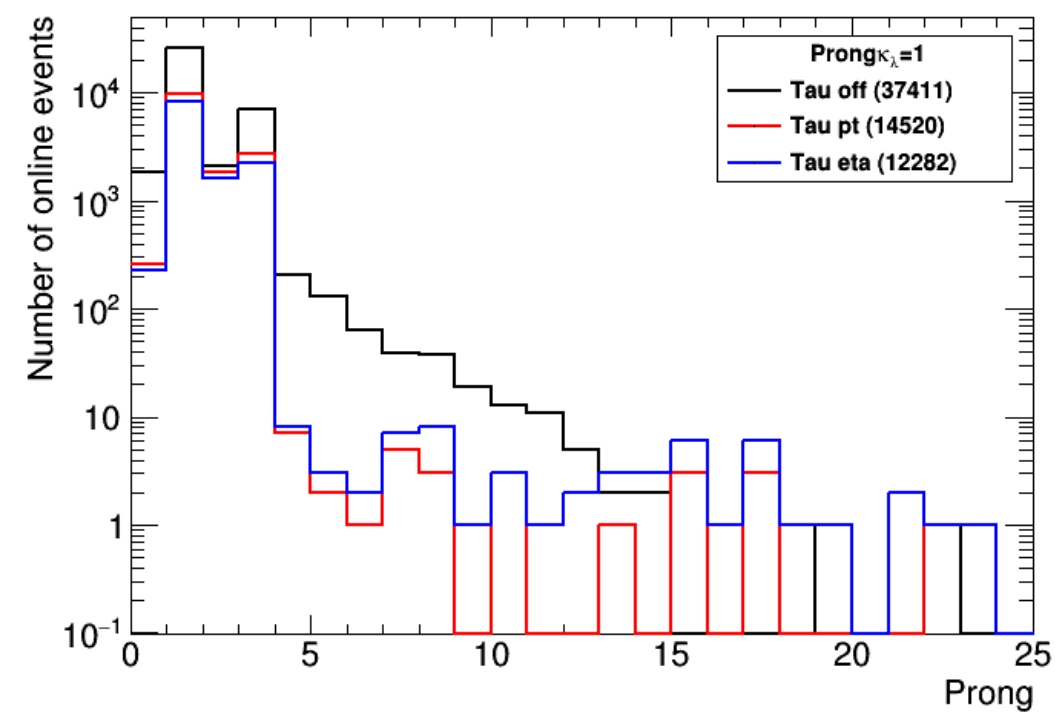
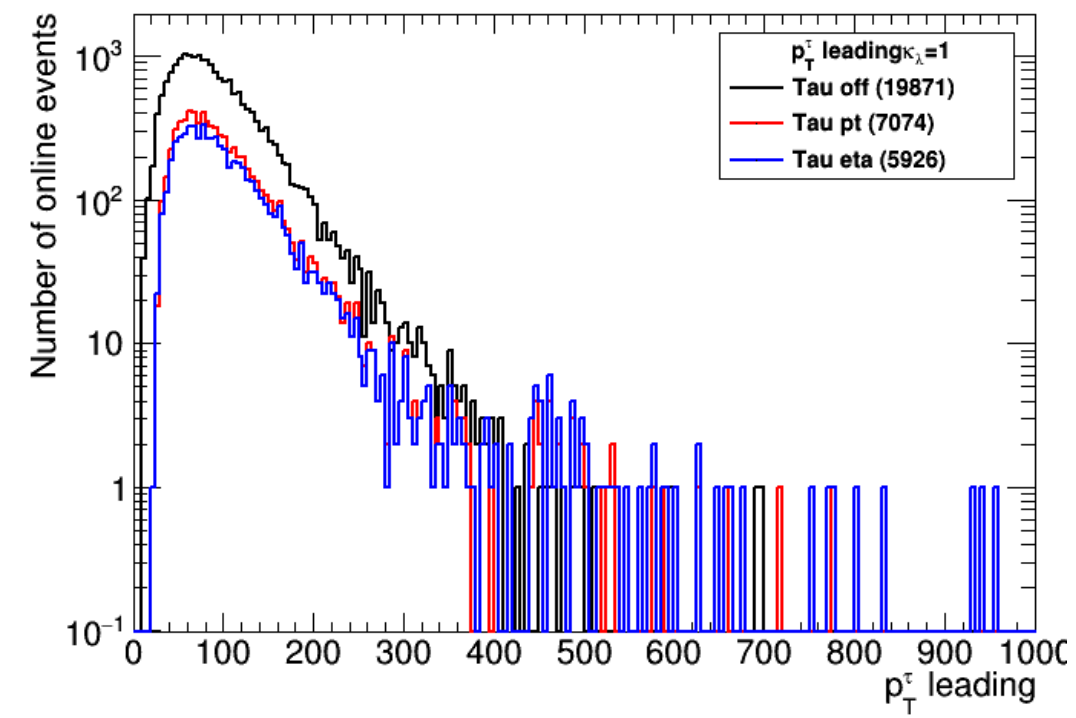
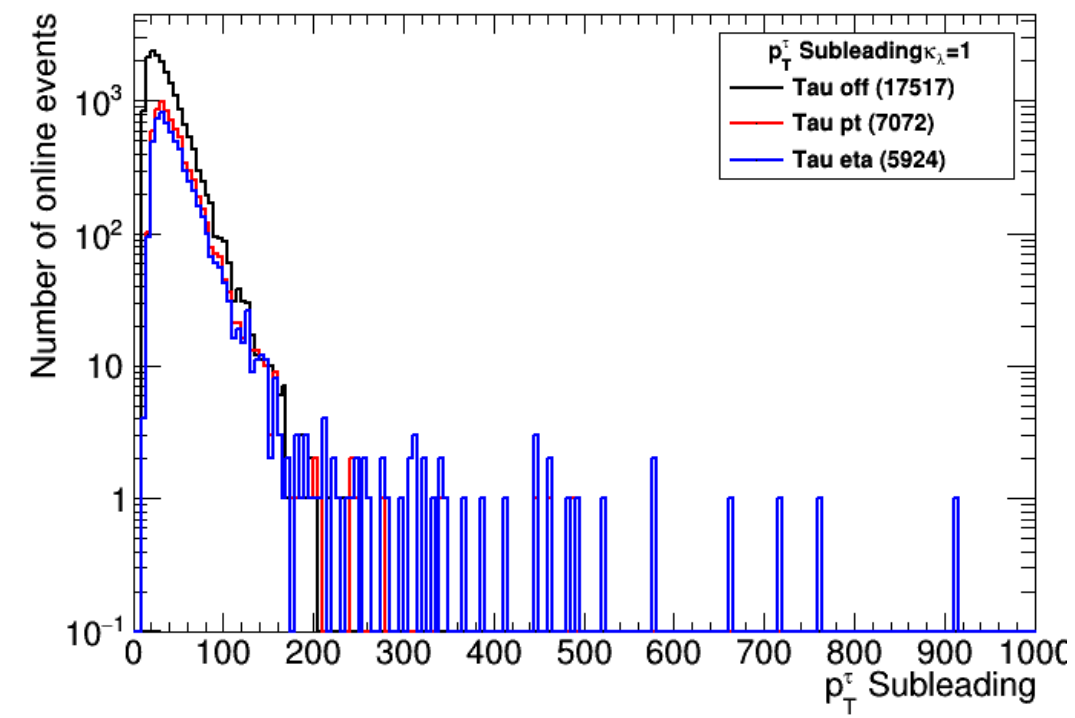
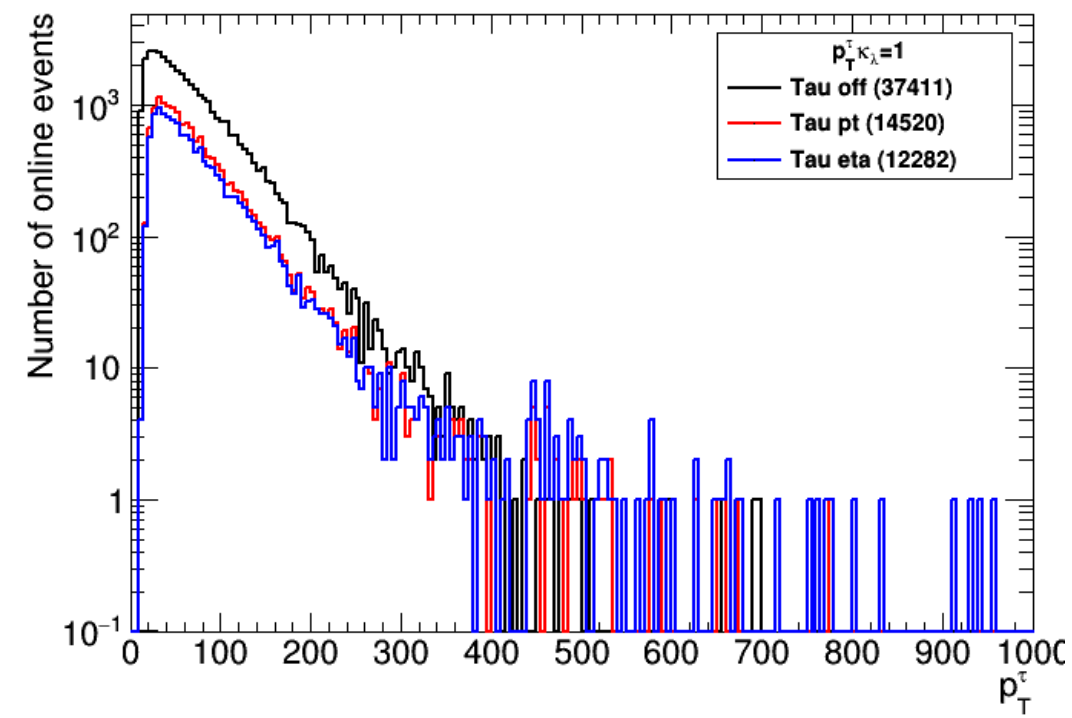
r22_Pass.root



r22_PassFail.root



Tau_Pass.root



Tau0_PassFail.root

