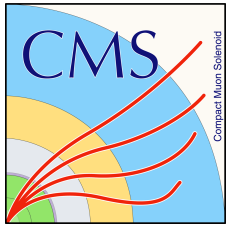
ttX Meeting
NTUA Report
4/3/2020

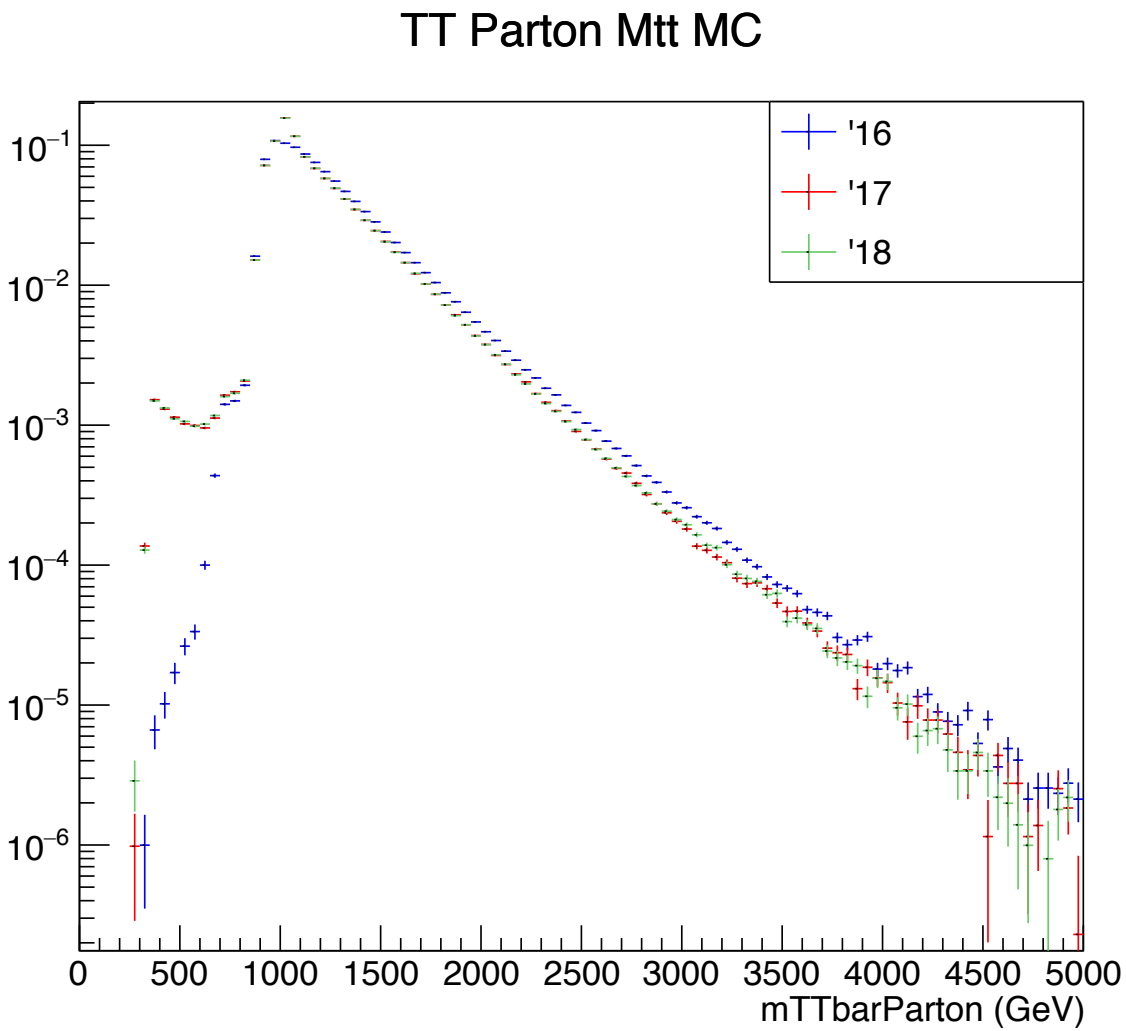
K. Kousouris, G. Tsipolitis, G.Bakas, I. Papakrivopoulos

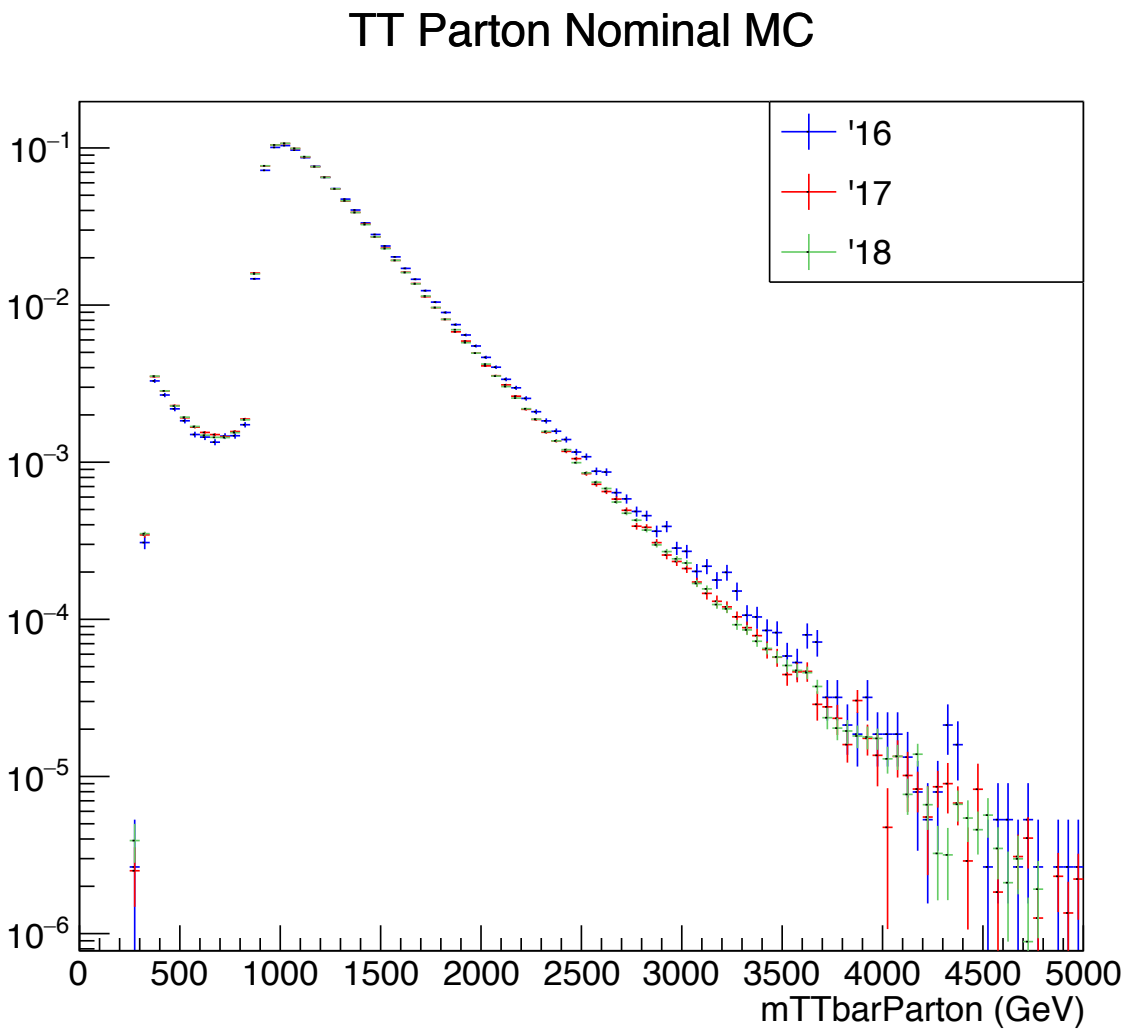


- Purpose:
  - Show the inconsistencies between the different Nominal and Mtt files
  - 2016, 2017, 2018
  - Parton Level quantities with $p_T > 400$ GeV (for both partons)

Year	Type of File	DAS
2016	TT Mtt 700-1000	/TT_Mtt-700to1000_TuneCUETP8M2T4_13TeV-powheg-pythia8/RunIISummer16MiniAODv3-PUMoriond17_94X_mcRun2_asymptotic_v3-v2/MINIAODSIM
	TT Mtt 1000-Inf	/TT_Mtt-1000toInf_TuneCUETP8M2T4_13TeV-powheg-pythia8/RunIISummer16MiniAODv3-PUMoriond17_94X_mcRun2_asymptotic_v3-v2/MINIAODSIM
	TT Nominal	/TT_TuneCUETP8M2T4_13TeV-powheg-pythia8/RunIISummer16MiniAODv3-PUMoriond17_94X_mcRun2_asymptotic_v3-v1/MINIAODSIM
2017	TT Mtt 700-1000	/TT_Mtt-700to1000_TuneCP5_13TeV-powheg-pythia8/RunIIFall17MiniAODv2-PU2017_12Apr2018_94X_mc2017_realistic_v14-v1/MINIAODSIM
	TT Mtt 1000-Inf	/TT_Mtt-1000toInf_TuneCP5_13TeV-powheg-pythia8/RunIIFall17MiniAODv2-PU2017_12Apr2018_94X_mc2017_realistic_v14-v1/MINIAODSIM
	TT Nominal Hadronic	/TTToHadronic_TuneCP5_13TeV-powheg-pythia8/RunIIFall17MiniAODv2-PU2017_12Apr2018_94X_mc2017_realistic_v14-v1/MINIAODSIM
	TT Nominal Semilepton	/TTToSemiLeptonic_TuneCP5_13TeV-powheg-pythia8/RunIIFall17MiniAODv2-PU2017_12Apr2018_94X_mc2017_realistic_v14-v2/MINIAODSIM
	TT Nominal Dilepton	TTTo2L2Nu_TuneCP5_13TeV-powheg-pythia8/RunIIFall17MiniAODv2-PU2017_12Apr2018_94X_mc2017_realistic_v14-v2/MINIAODSIM
2018	TT Mtt 700-1000	/TT_Mtt-700to1000_TuneCP5_PSweights_13TeV-powheg-pythia8/RunIIAutumn18MiniAOD-102X_upgrade2018_realistic_v15-v1/MINIAODSIM
	TT Mtt 1000-Inf	/TT_Mtt-1000toInf_TuneCP5_13TeV-powheg-pythia8/RunIIAutumn18MiniAOD-102X_upgrade2018_realistic_v15-v1/MINIAODSIM
	TT Nominal Hadronic	/TTToHadronic_TuneCP5_13TeV-powheg-pythia8/RunIIAutumn18MiniAOD-102X_upgrade2018_realistic_v15-v1/MINIAODSIM
	TT Nominal Semilepton	/TTToSemiLeptonic_TuneCP5_13TeV-powheg-pythia8/RunIIAutumn18MiniAOD-102X_upgrade2018_realistic_v15-v1/MINIAODSIM
	TT Nominal Dilepton	/TTTo2L2Nu_TuneCP5_13TeV-powheg-pythia8/RunIIAutumn18MiniAOD-102X_upgrade2018_realistic_v15-v1/MINIAODSIM

MC Closure tests ’16, ‘17 and ’18 (shape) for mtt and nominal files





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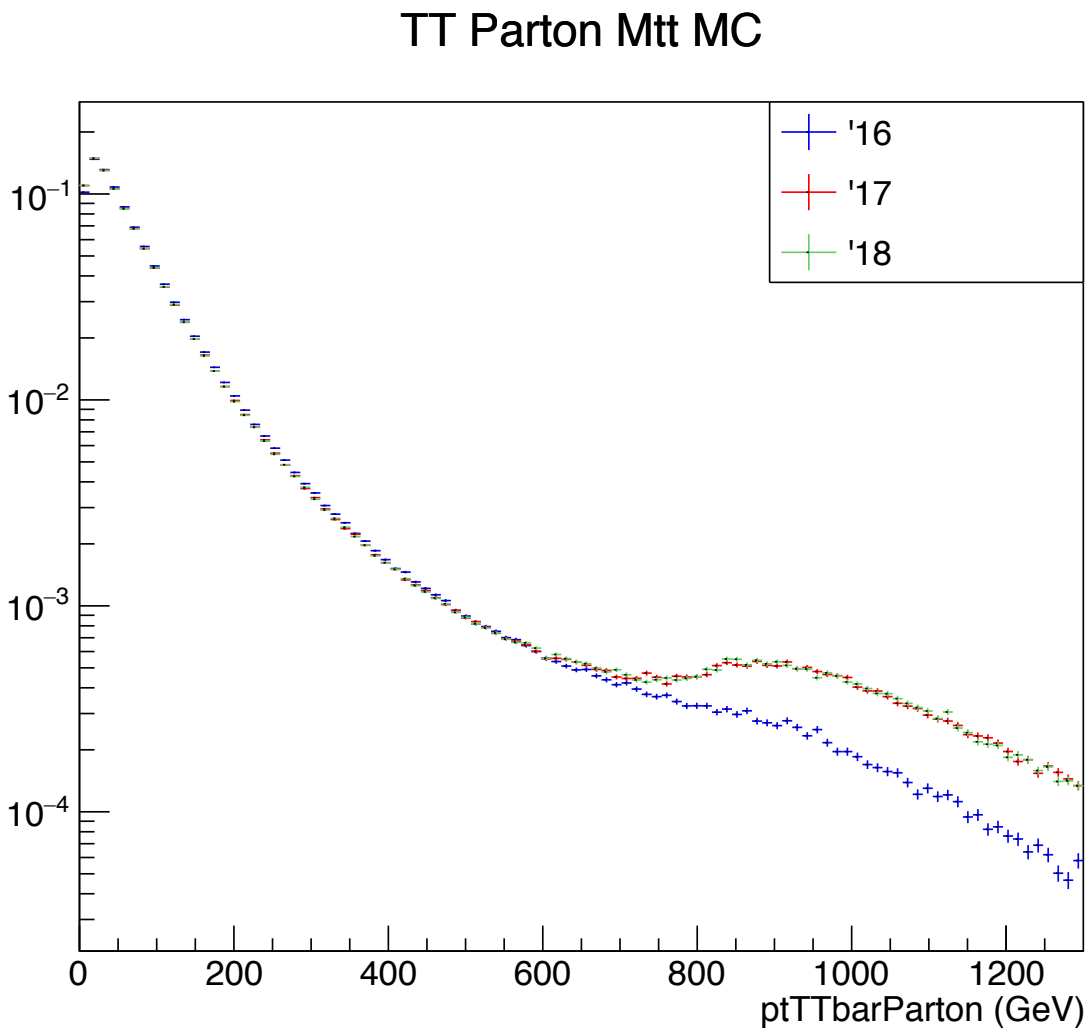

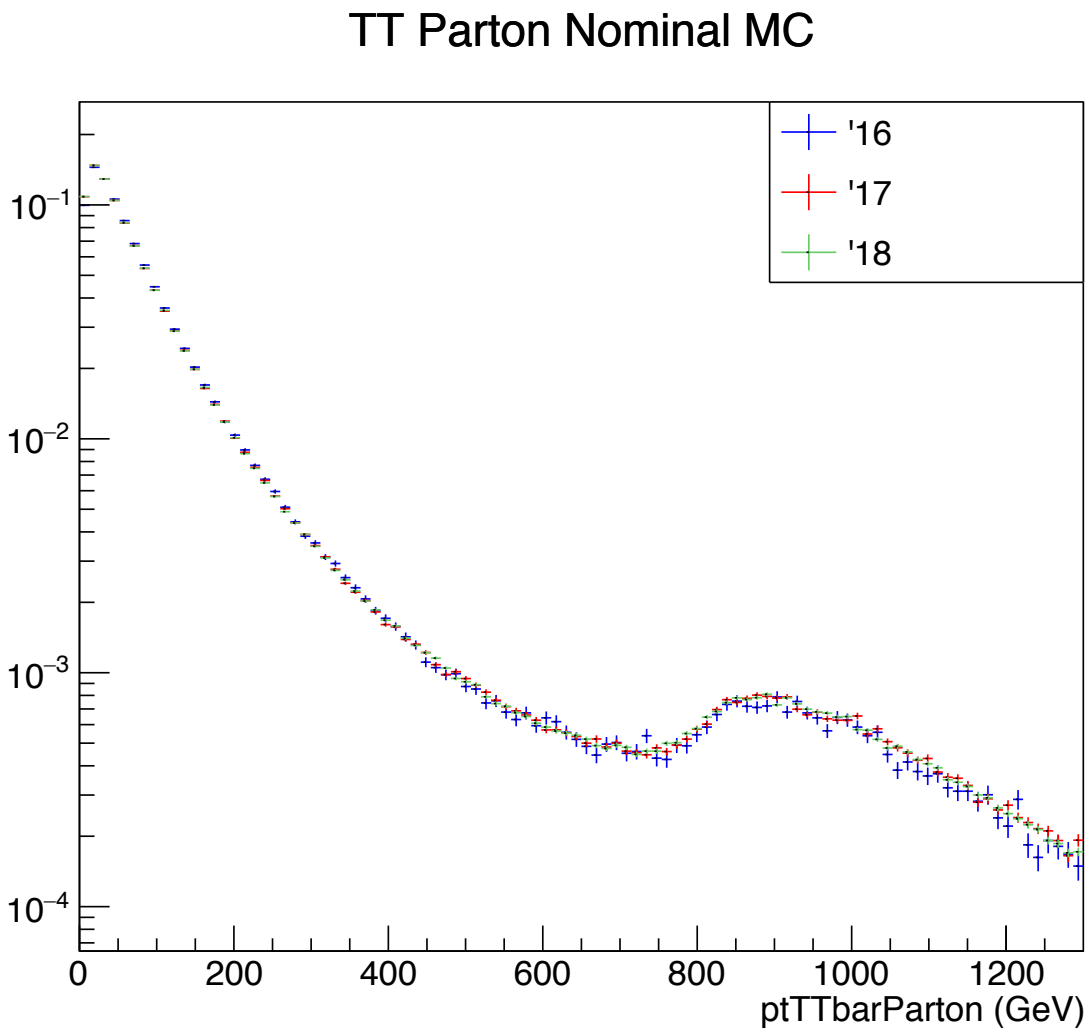

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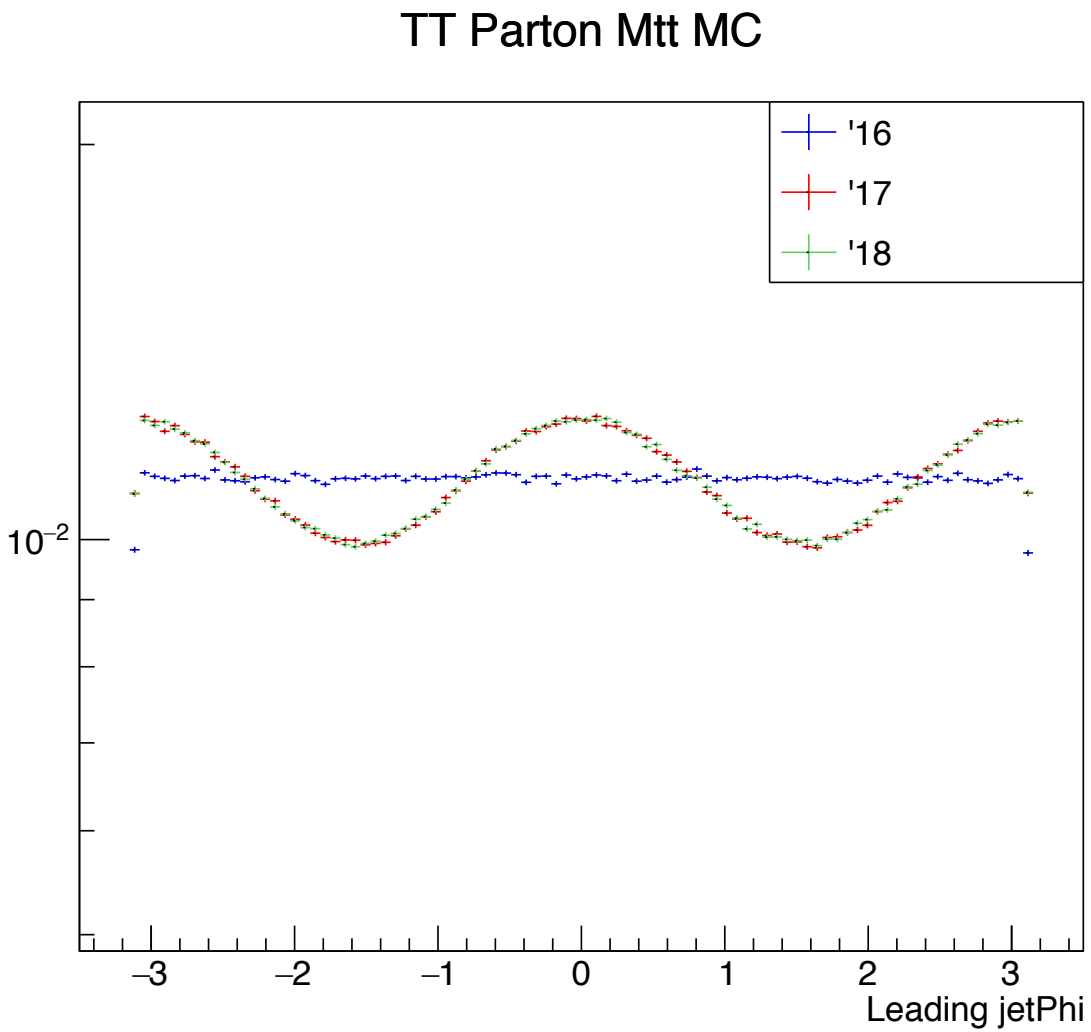
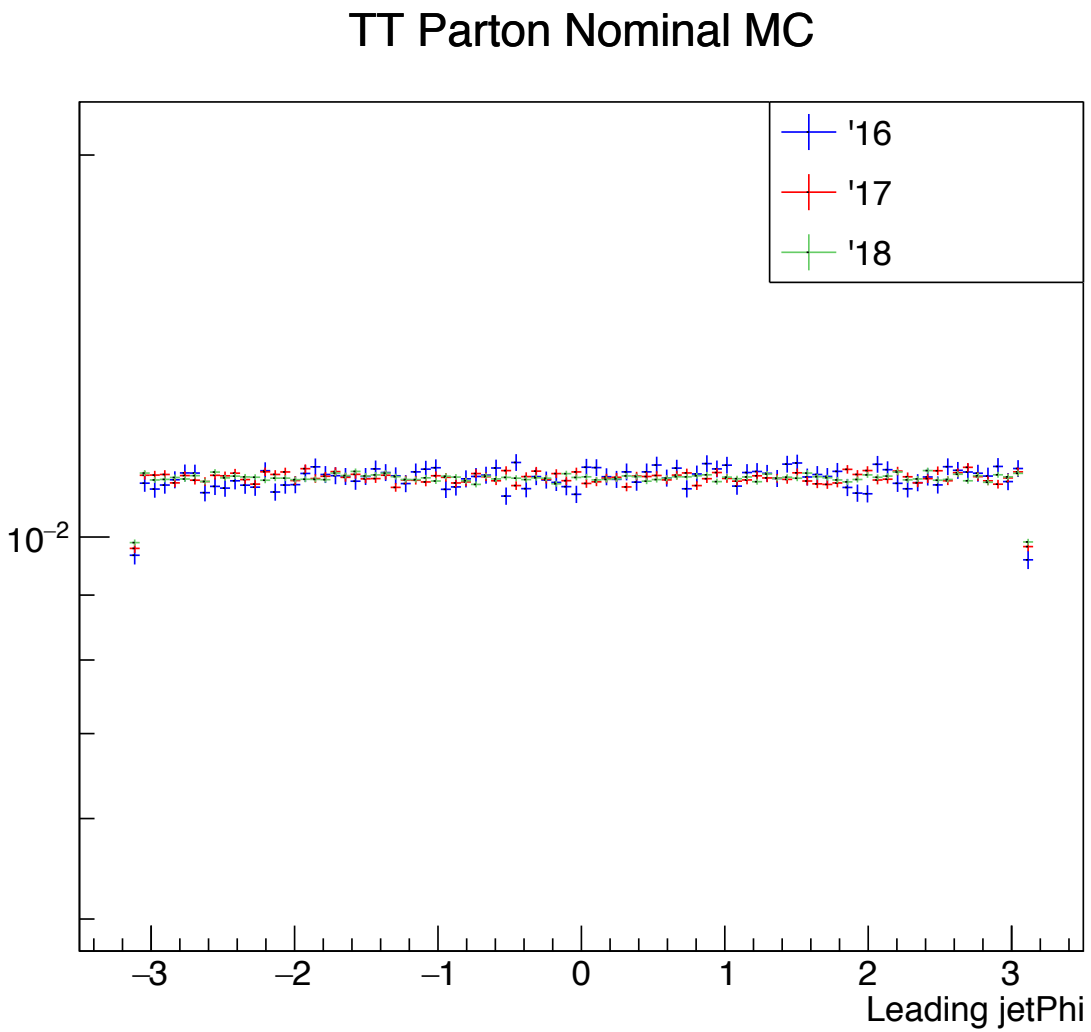
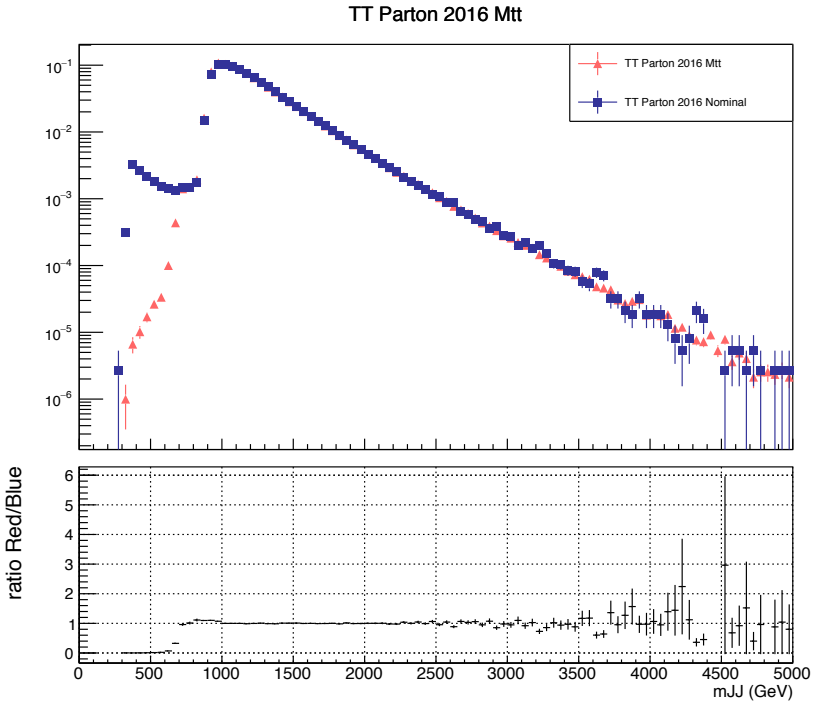
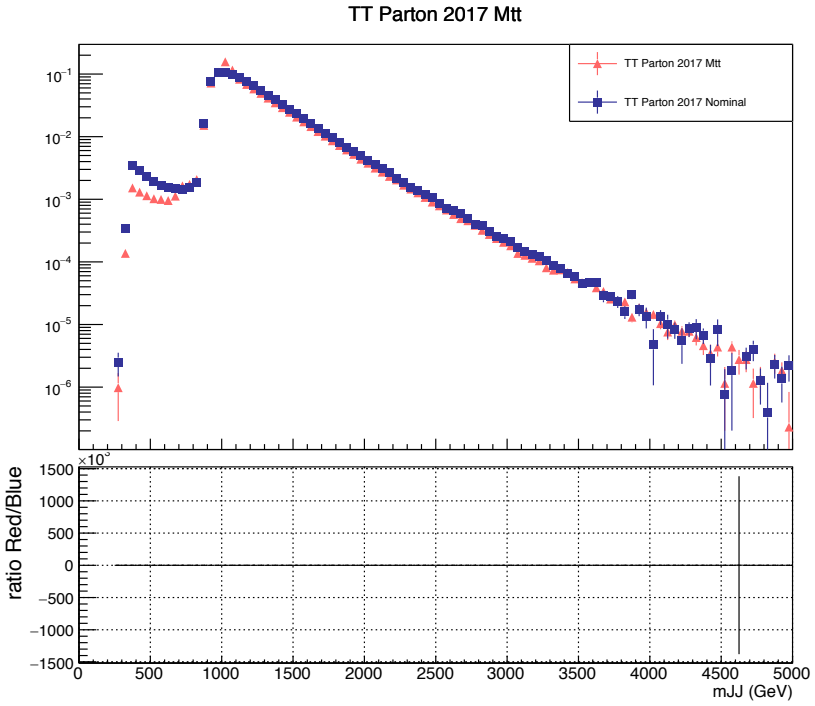
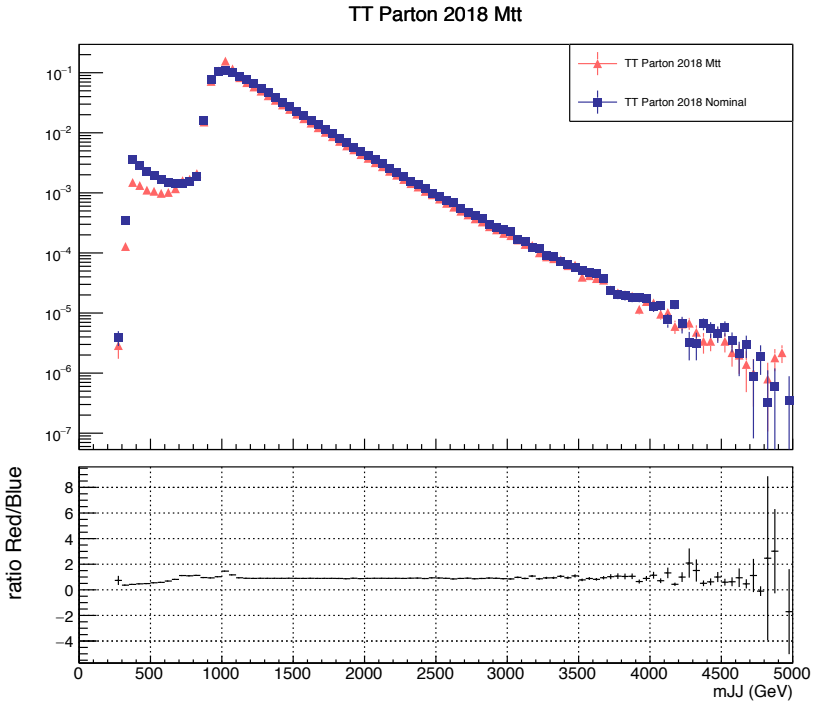




MC Closure Tests Mtt vs Nominal Parton







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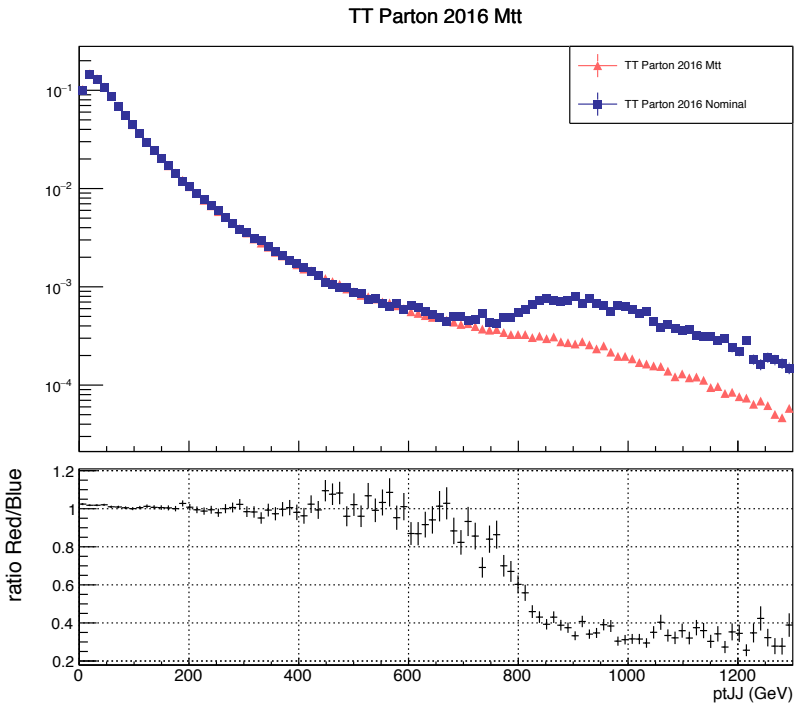

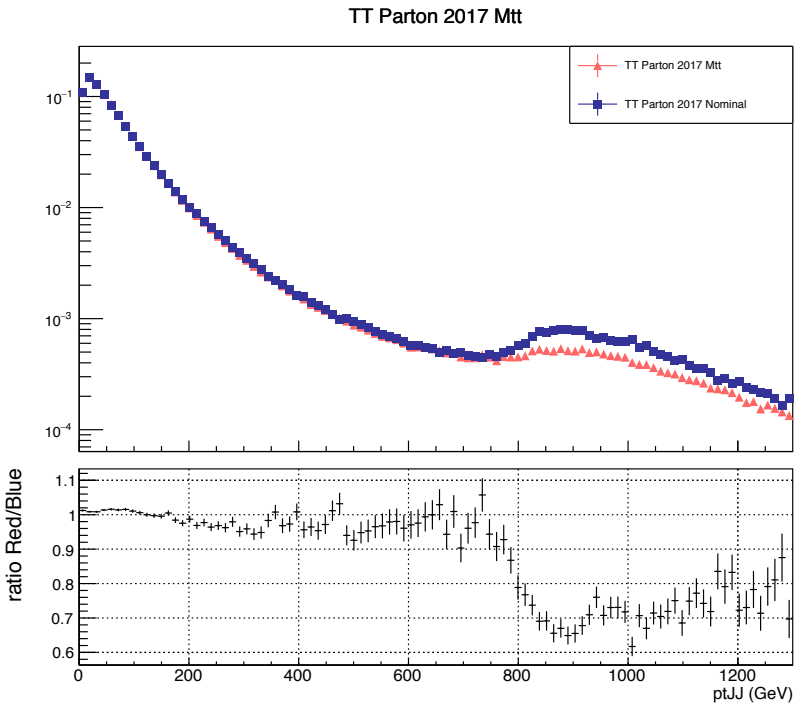

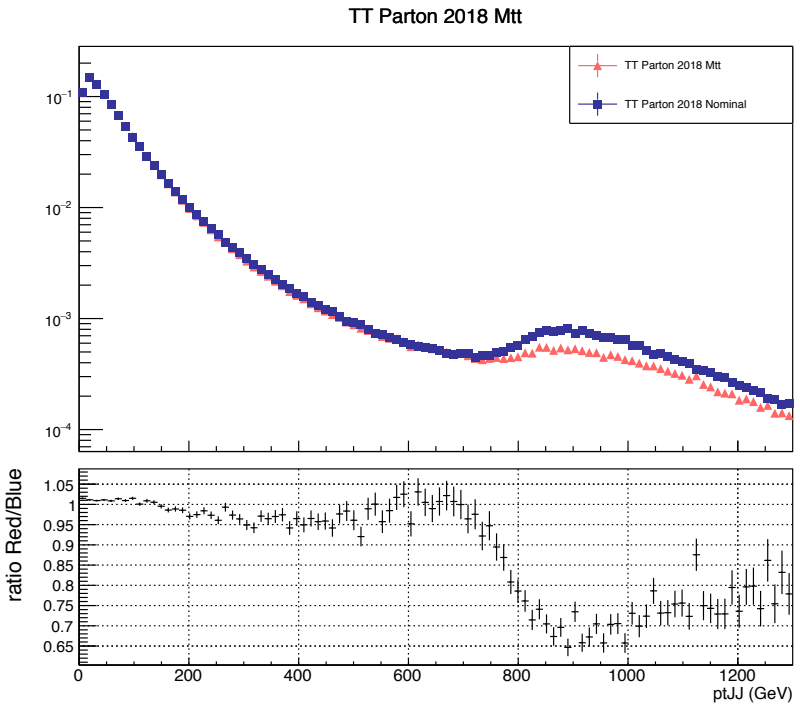

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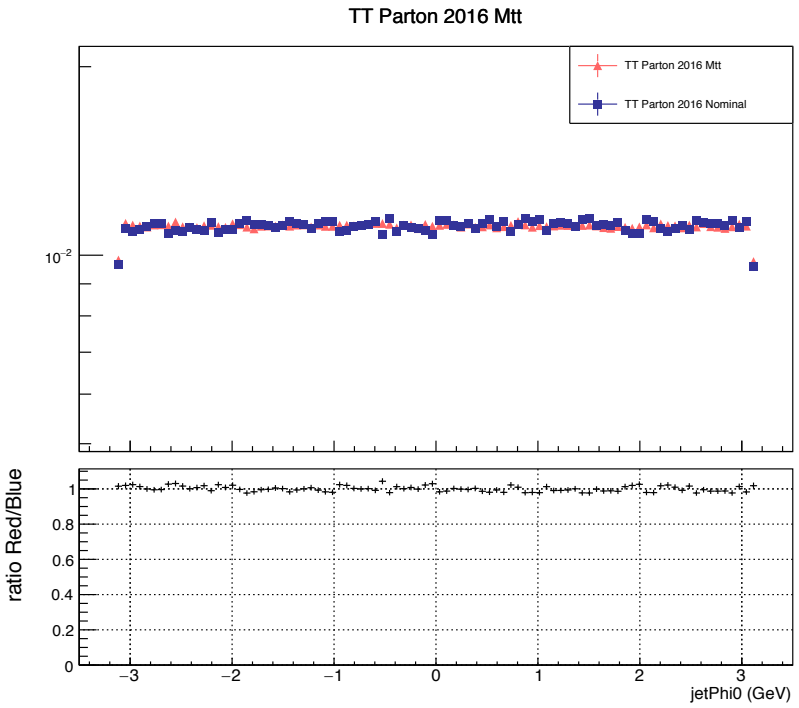
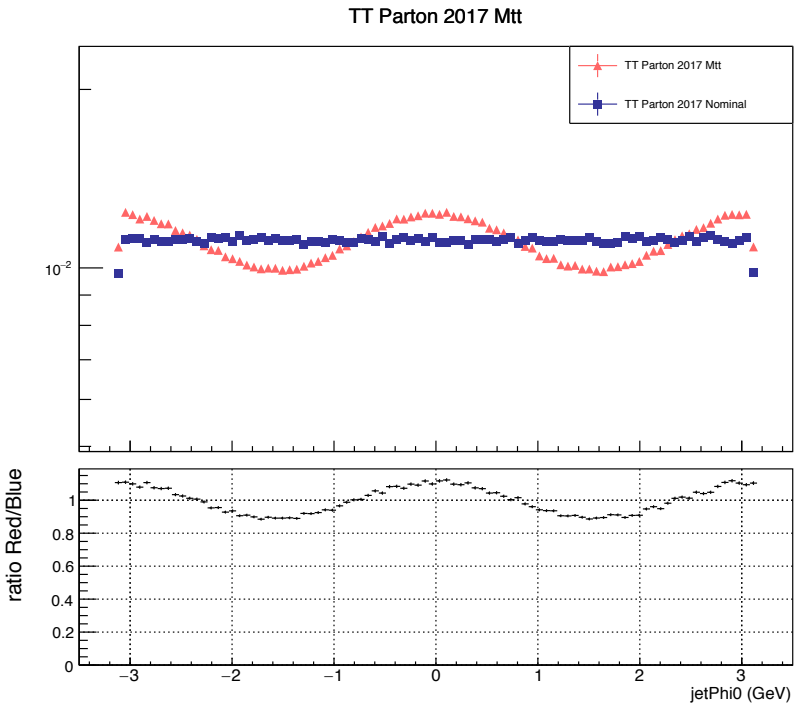
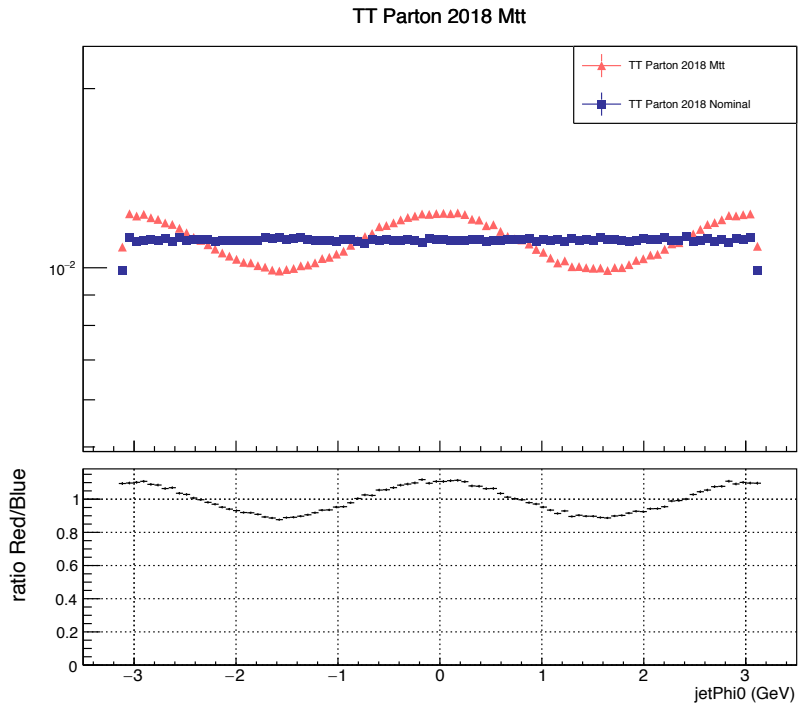
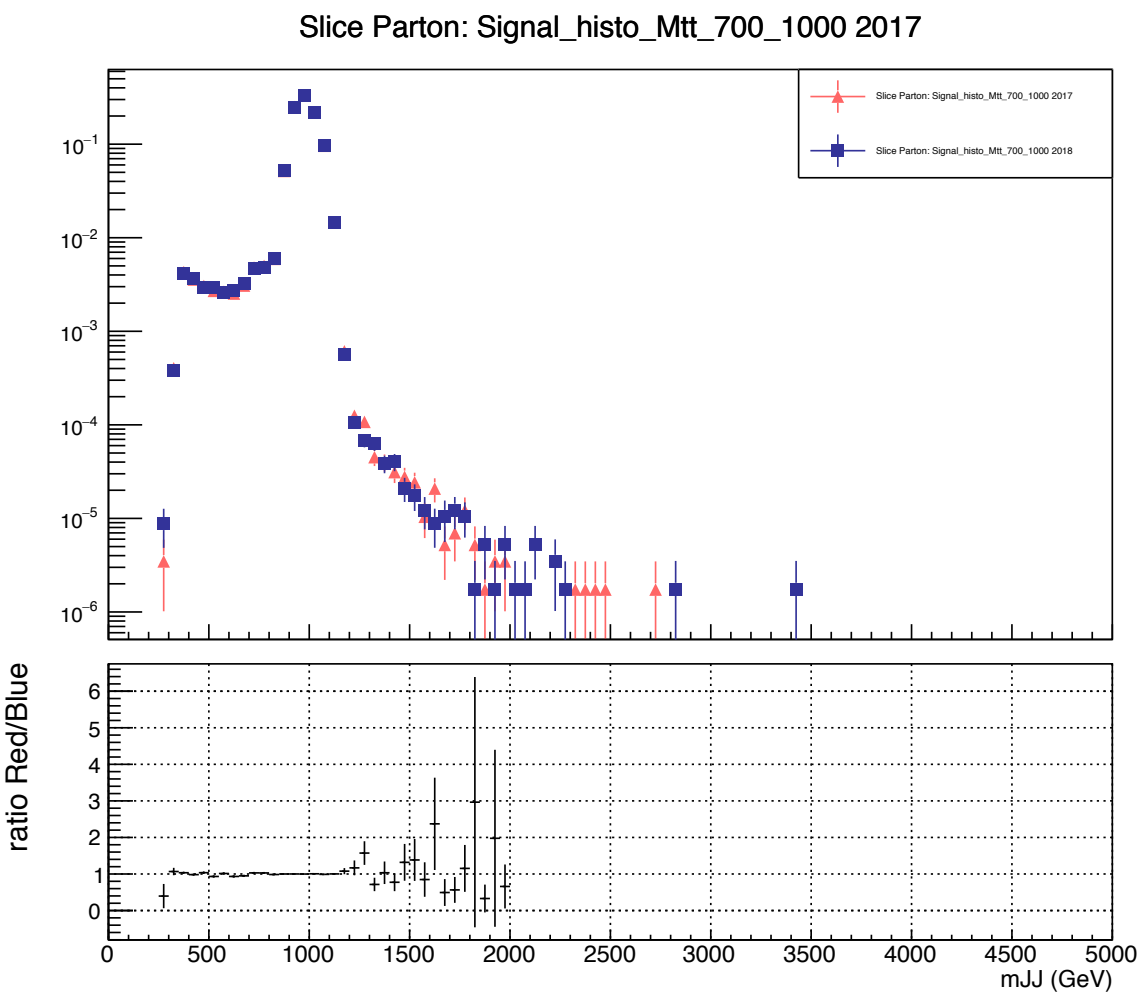
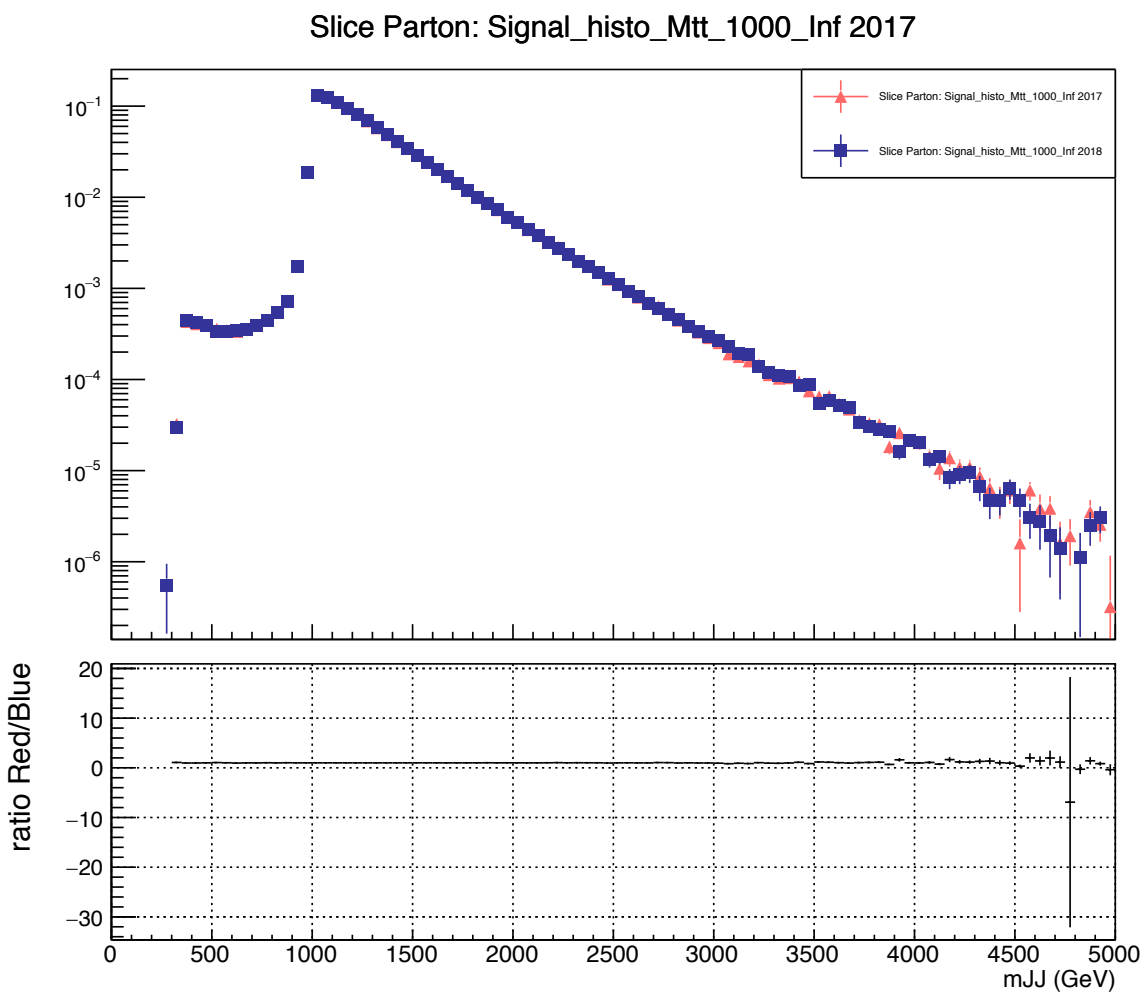




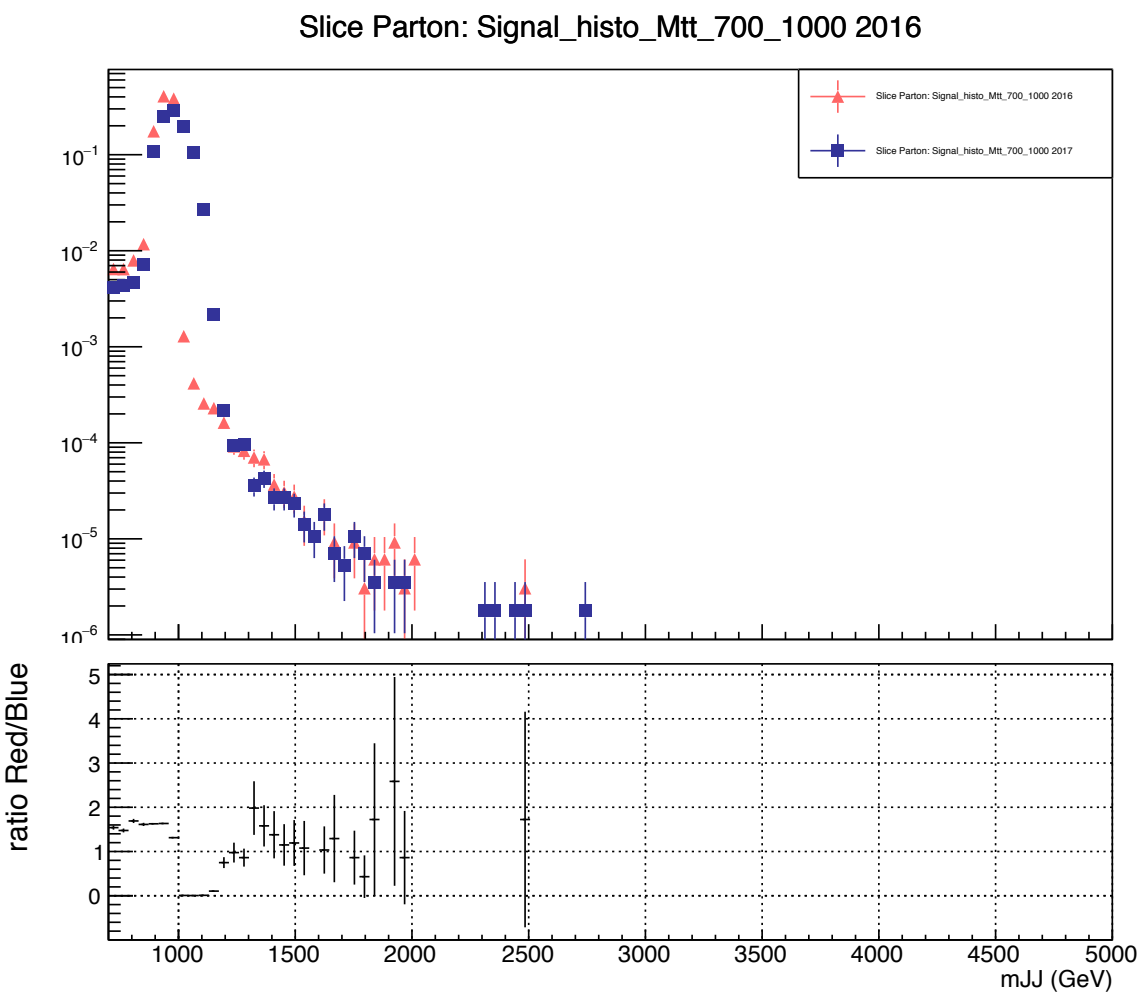


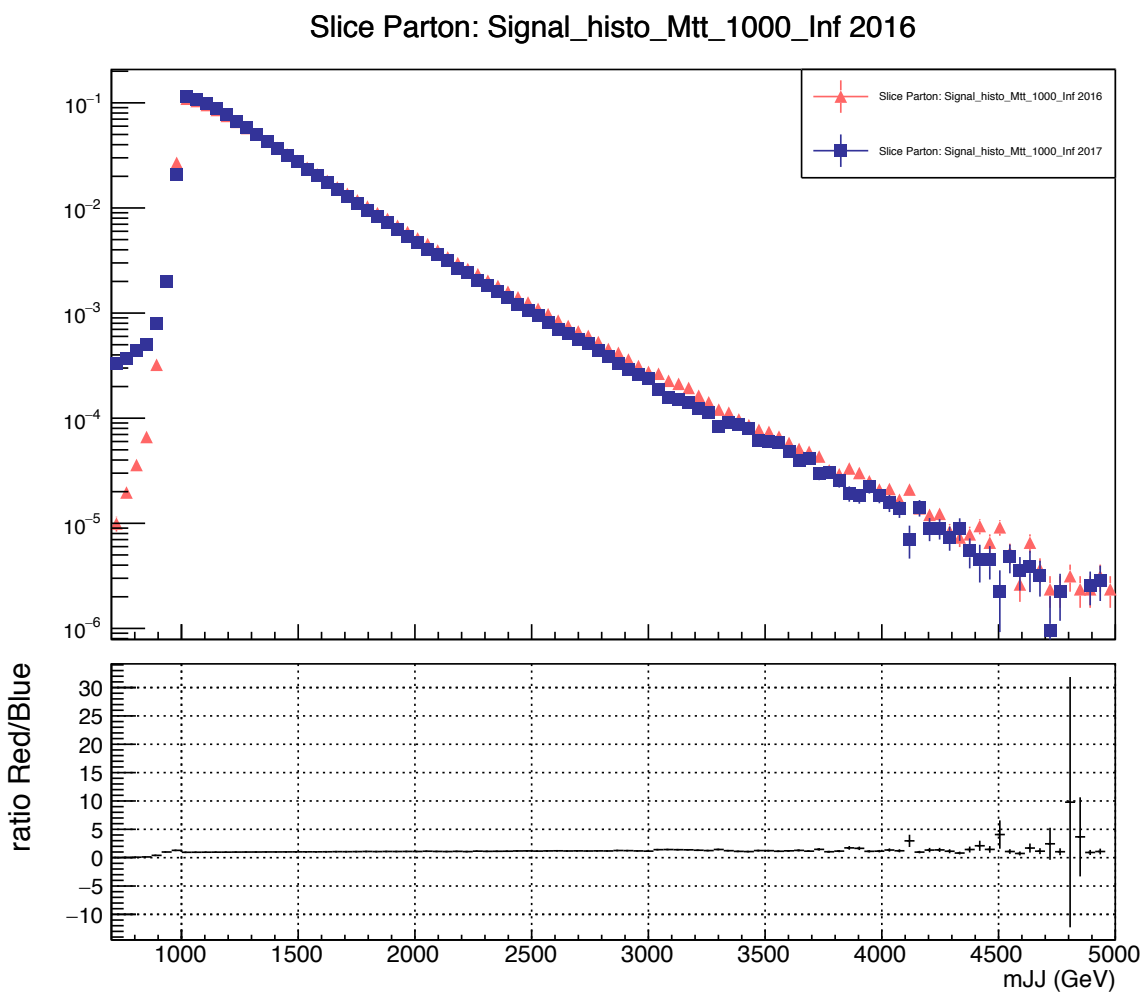
MC Closure Tests Mtt 2017 vs 2018 (shape) per slice



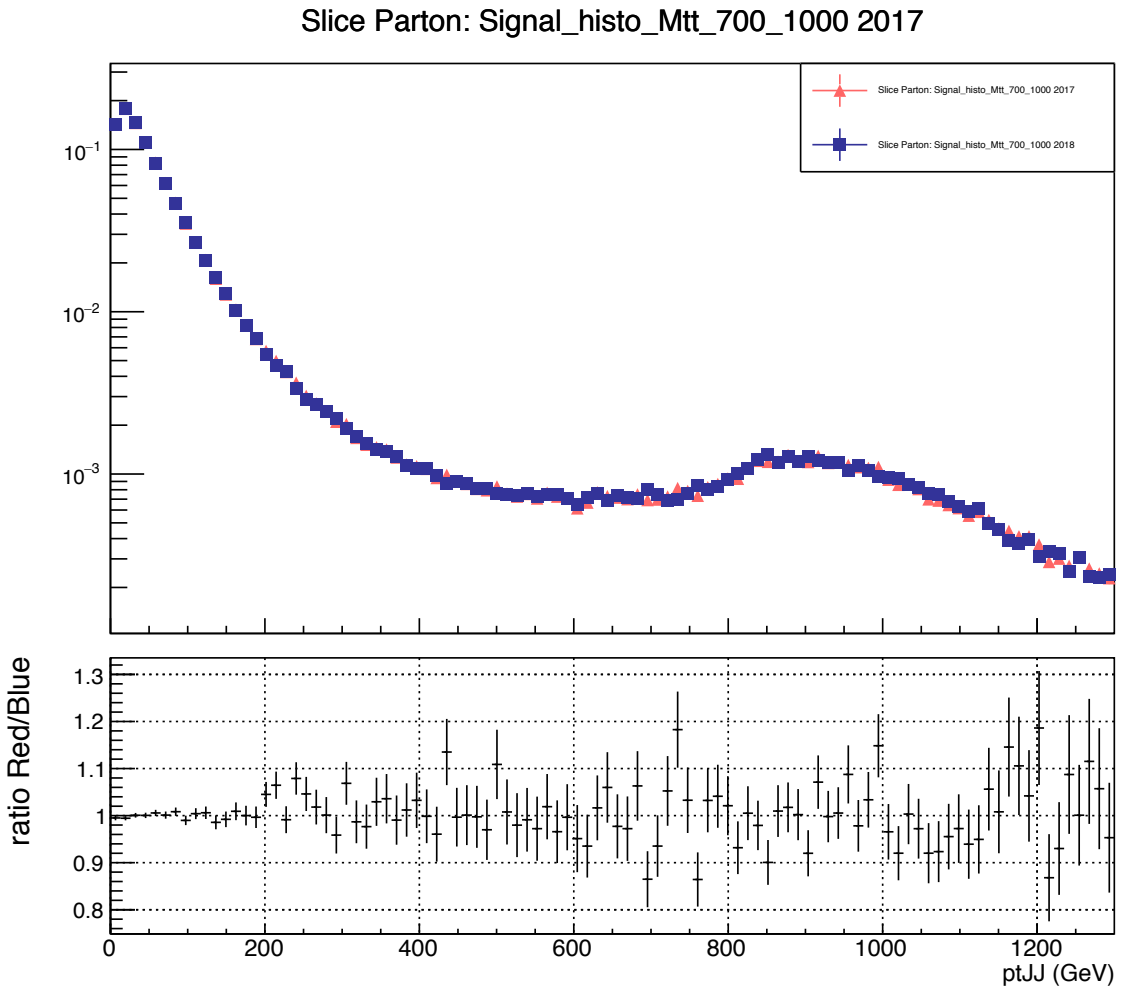


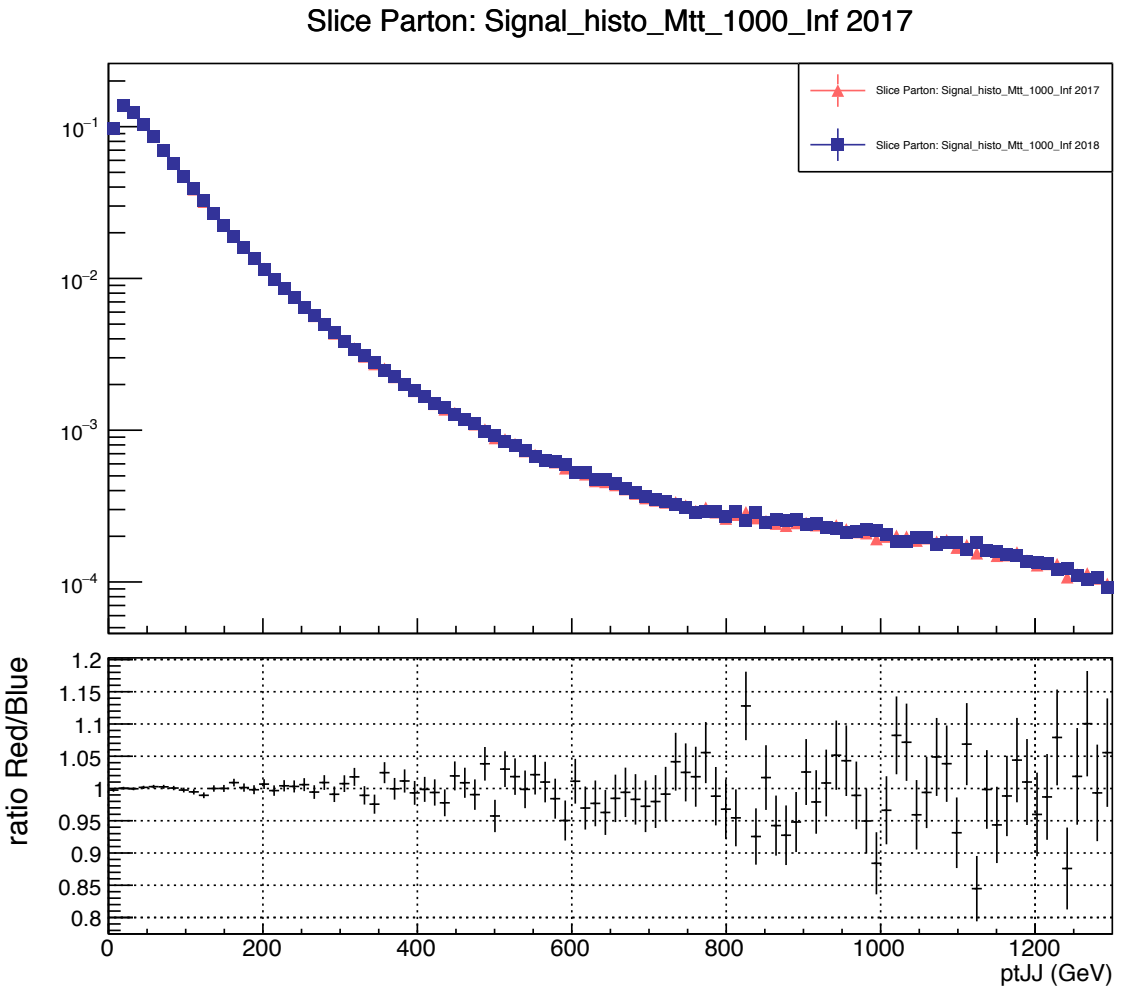
MC Closure Tests Mtt 2017 vs 2016 (shape) per slice





MC Closure Tests Mtt 2017 vs 2018 (shape) per slice





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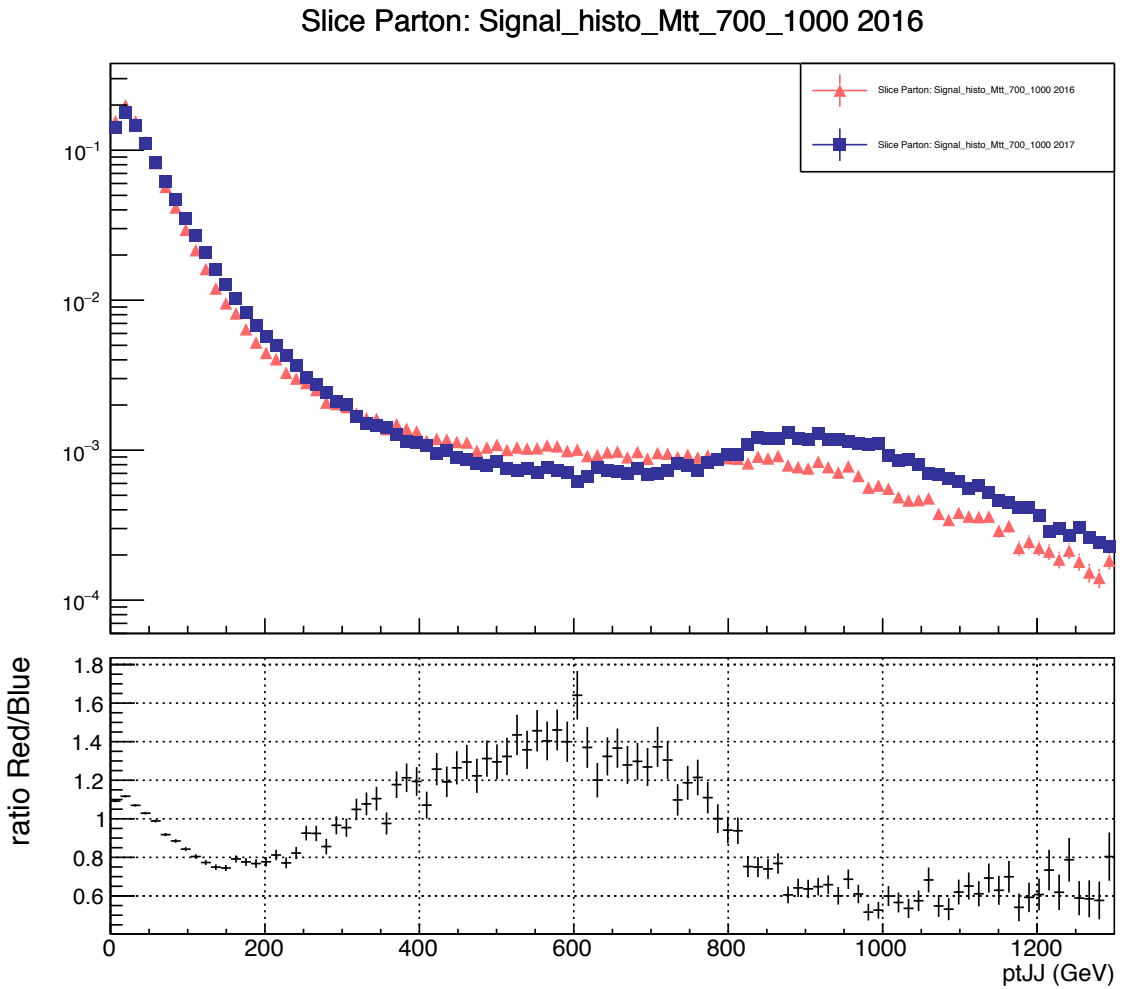

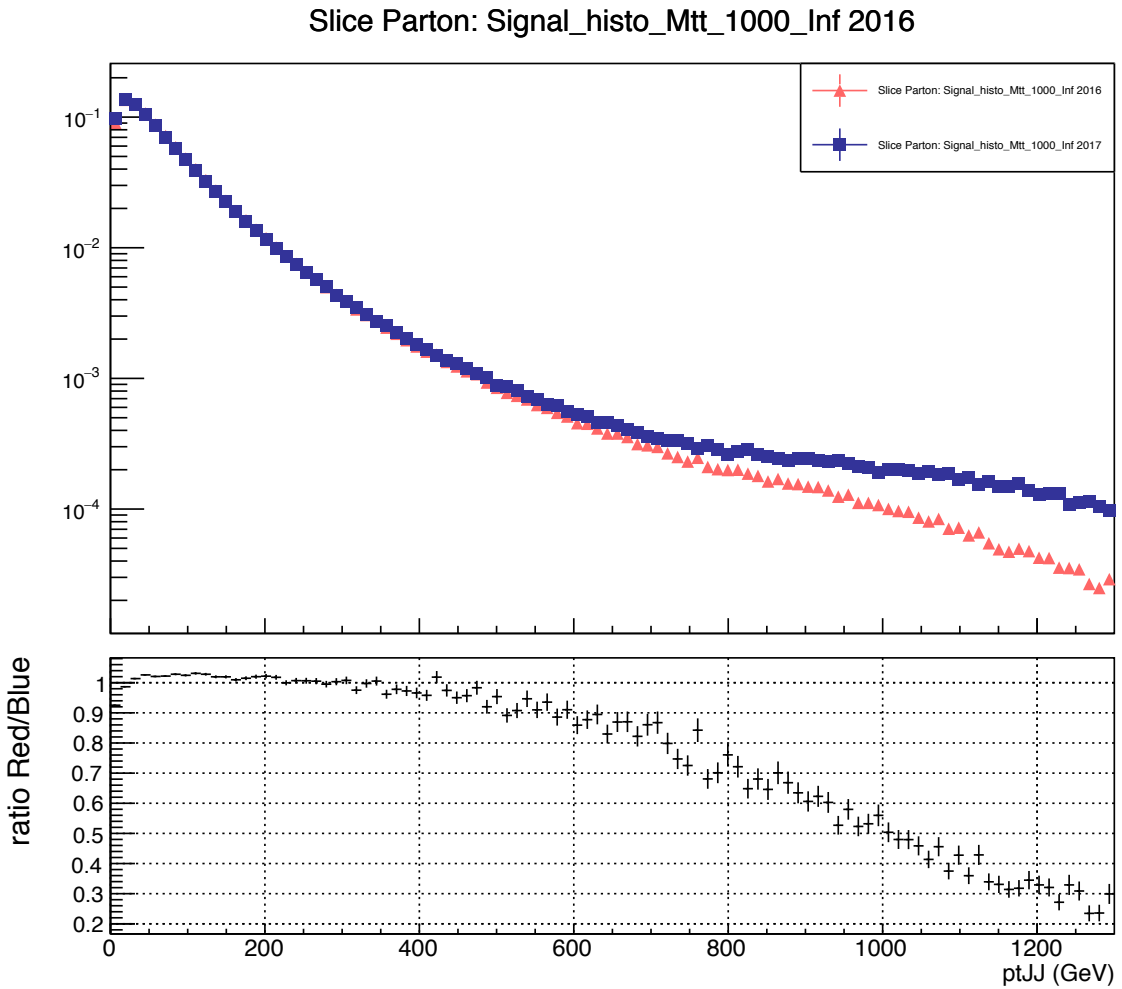

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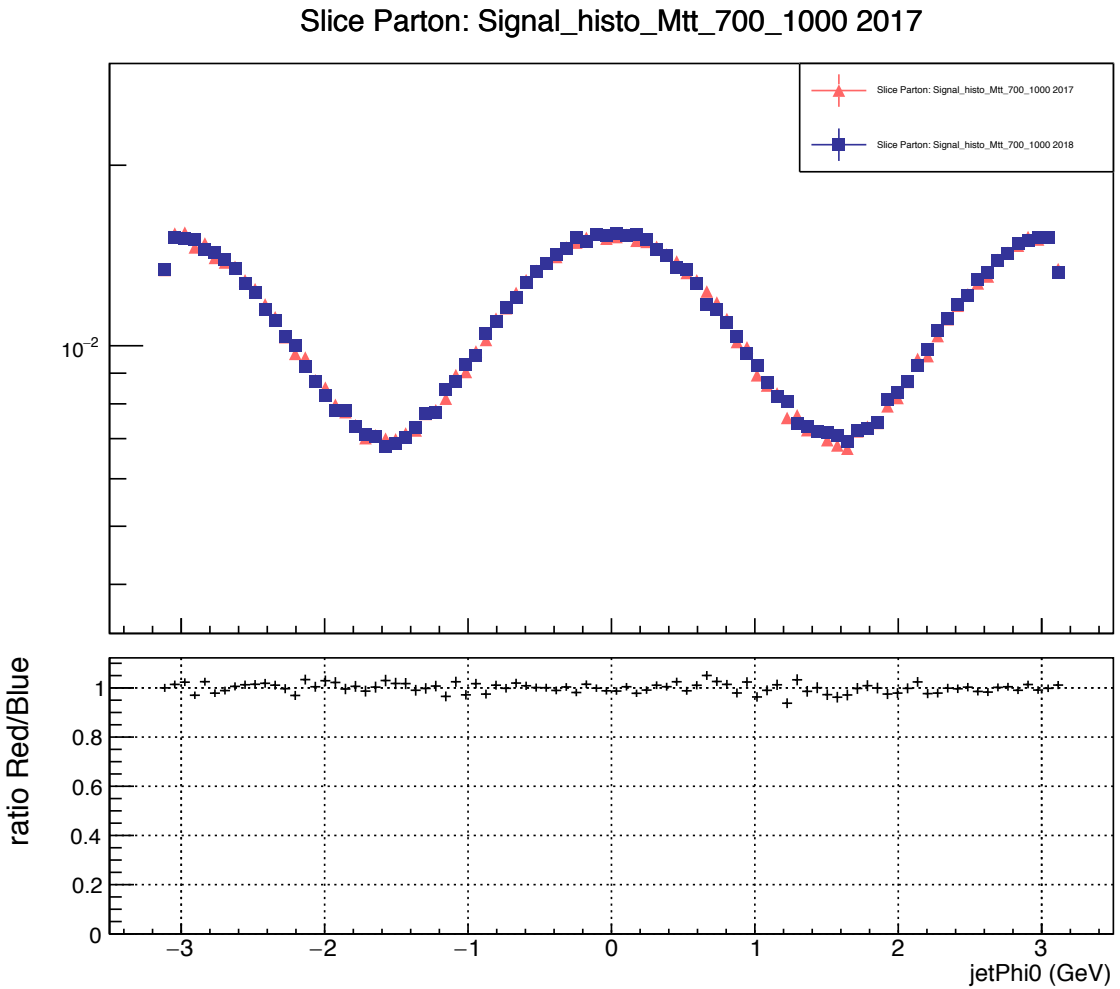

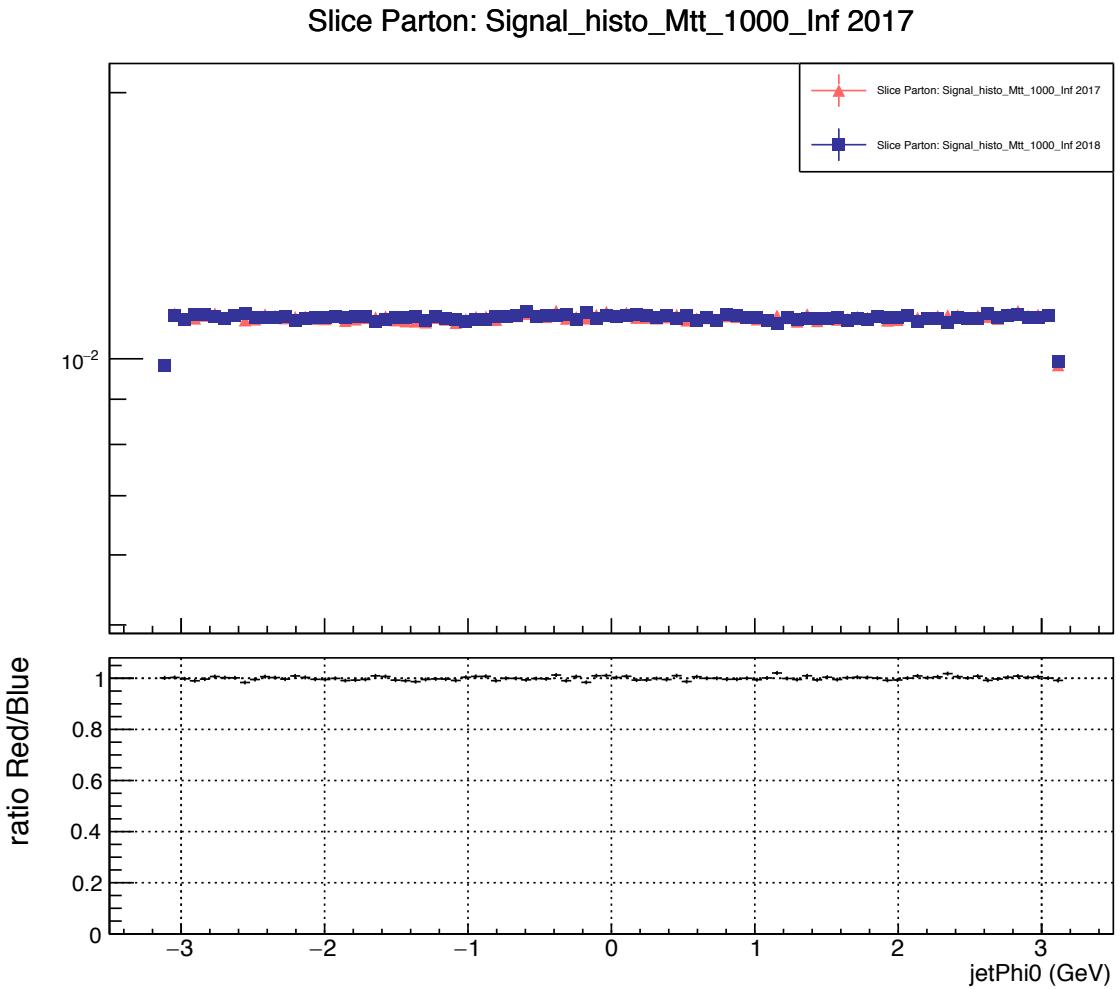

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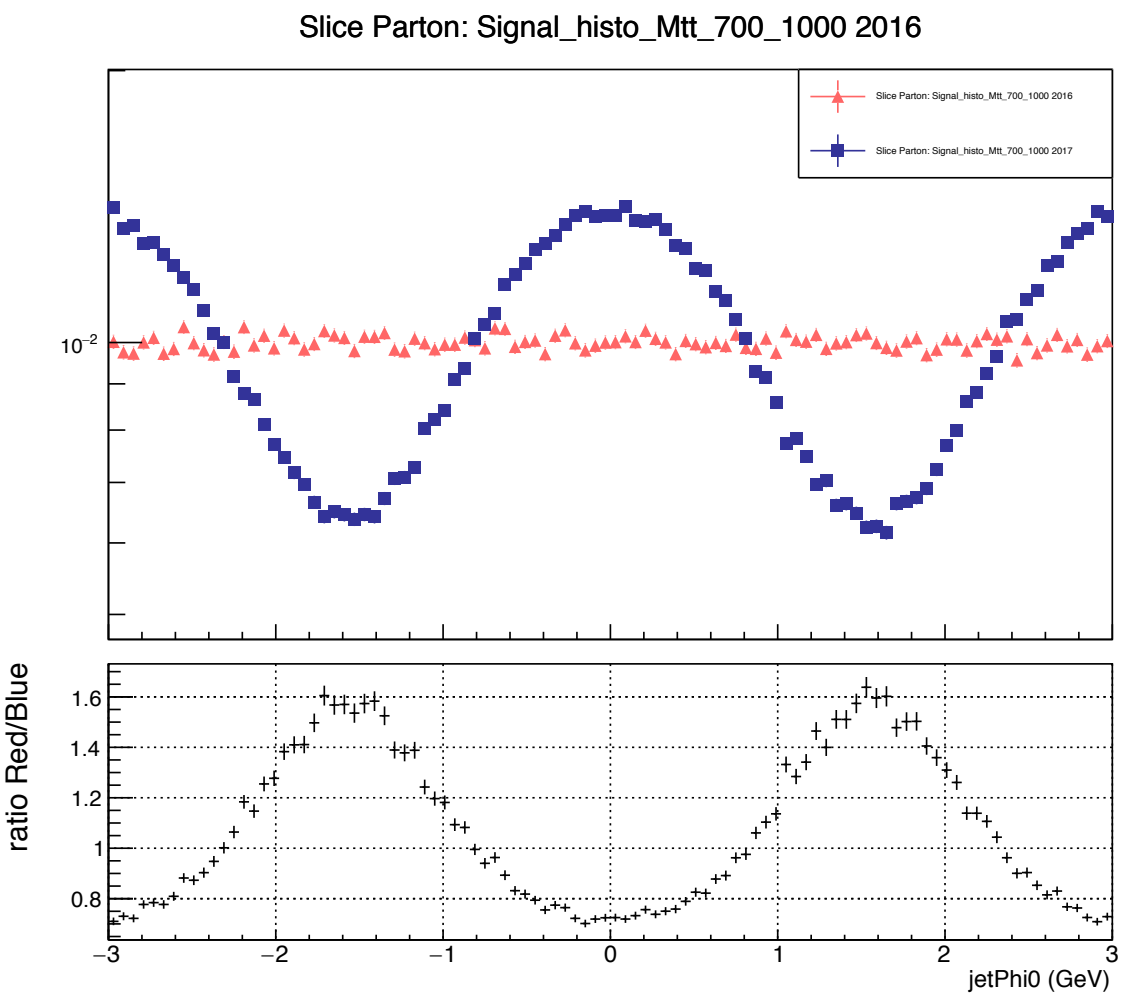
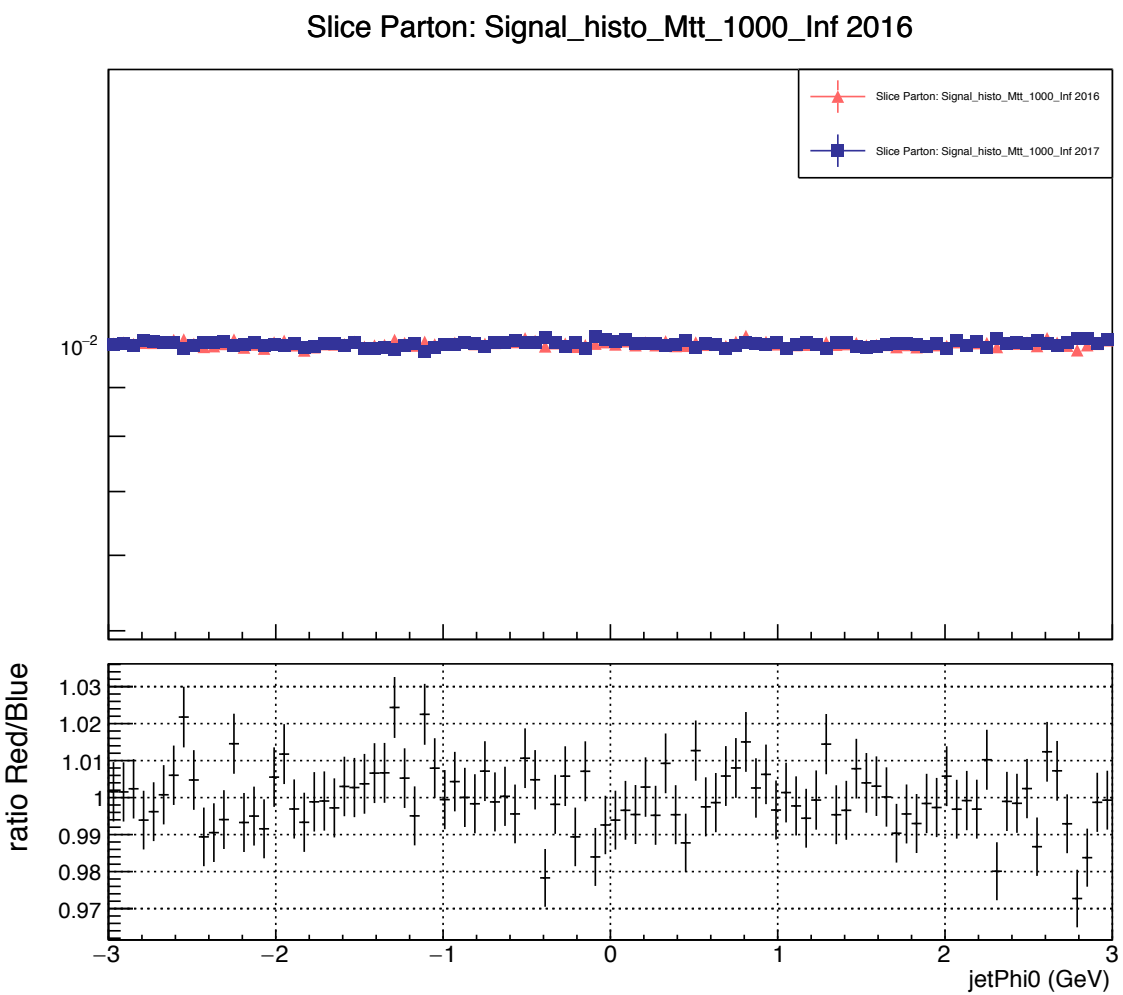
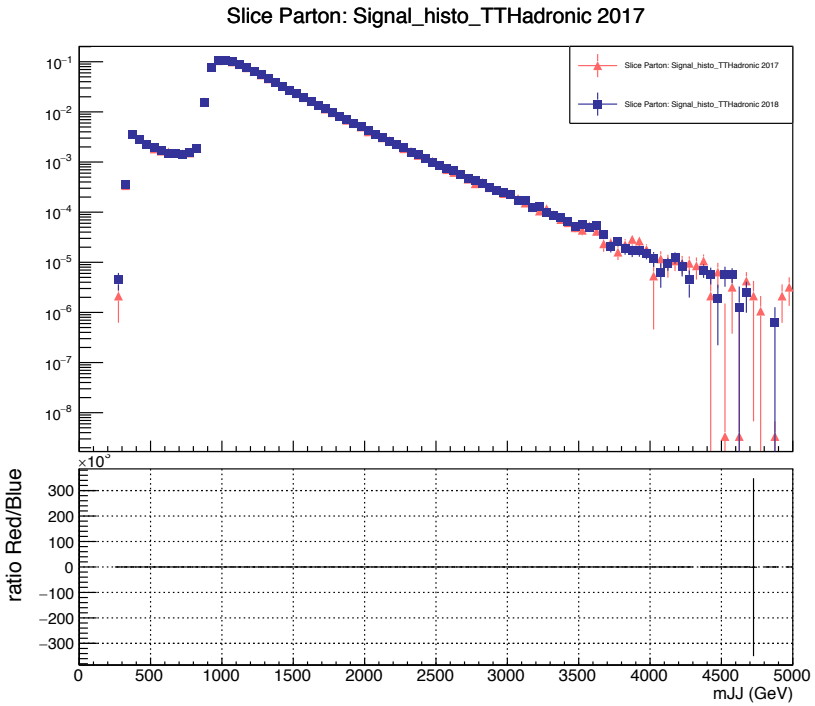
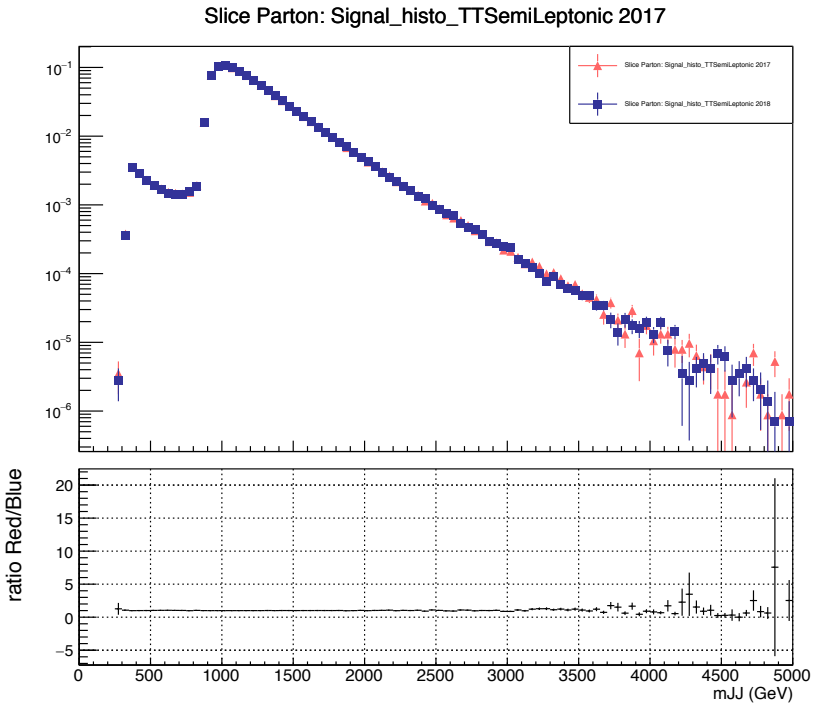
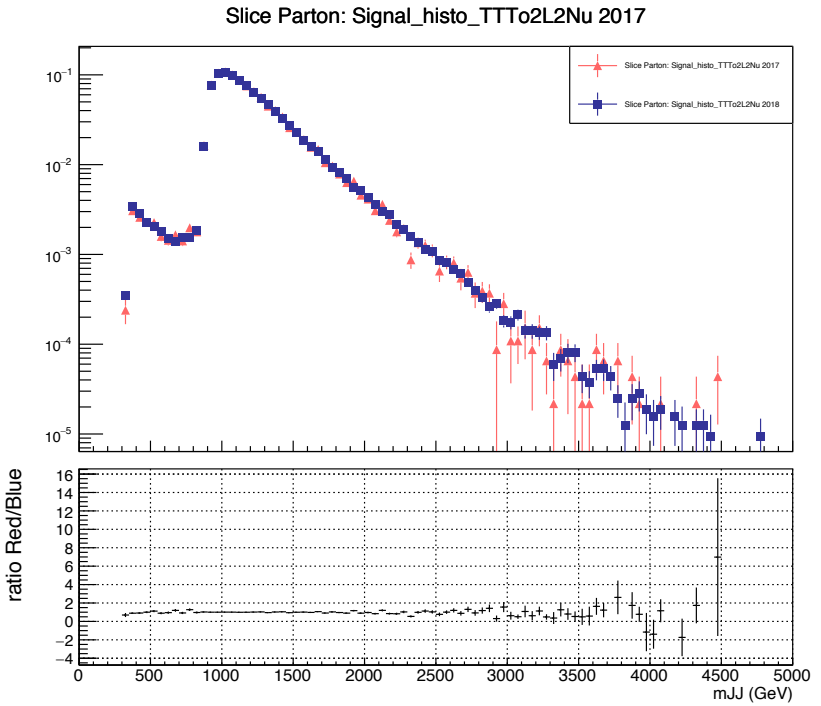




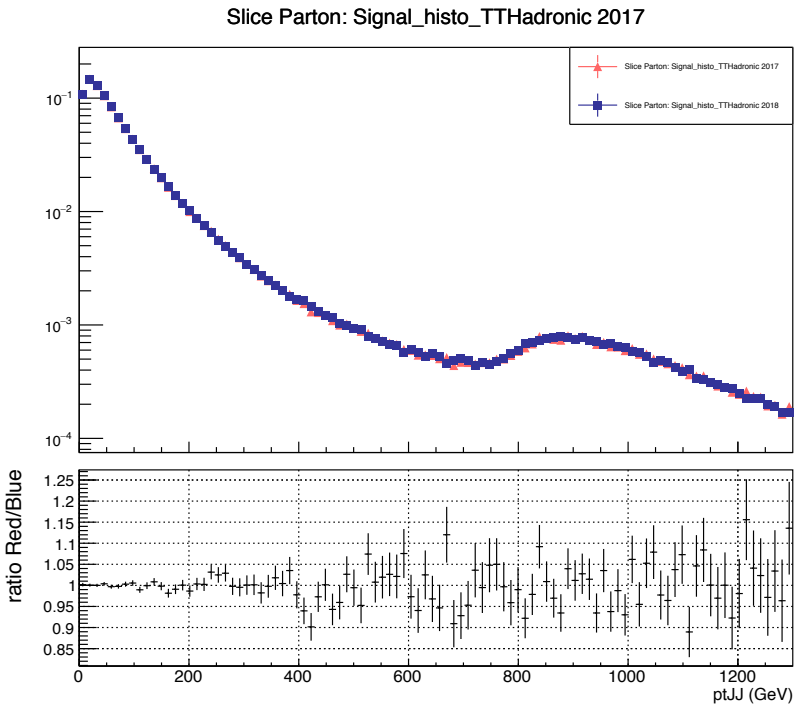
MC Closure Tests Nominal 2017 vs 2018 (shape) per slice Nominal

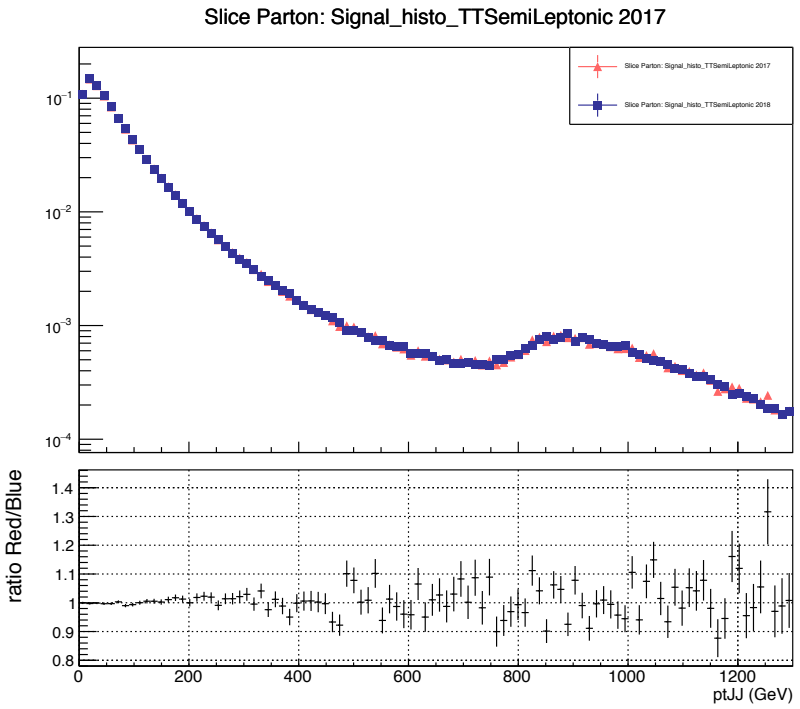


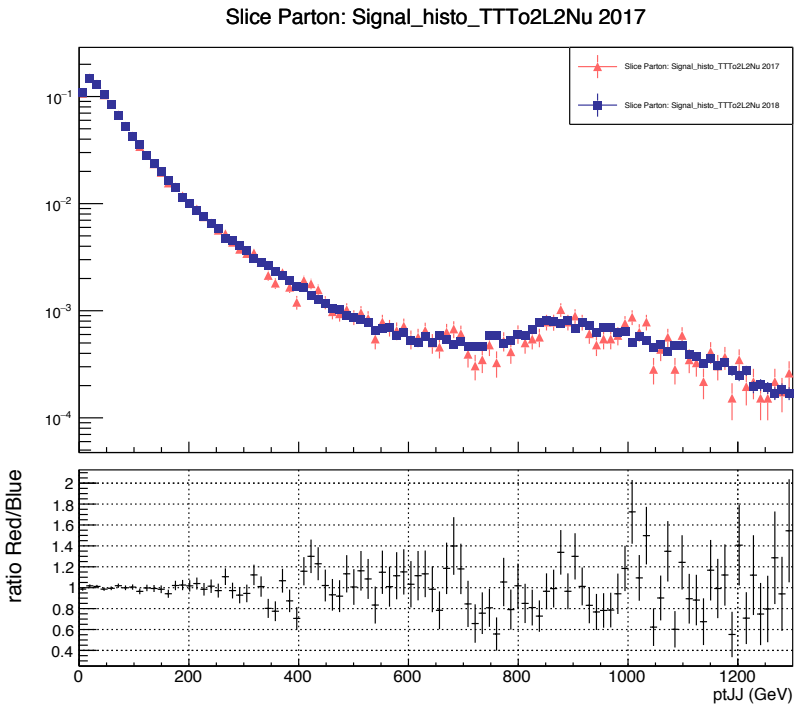
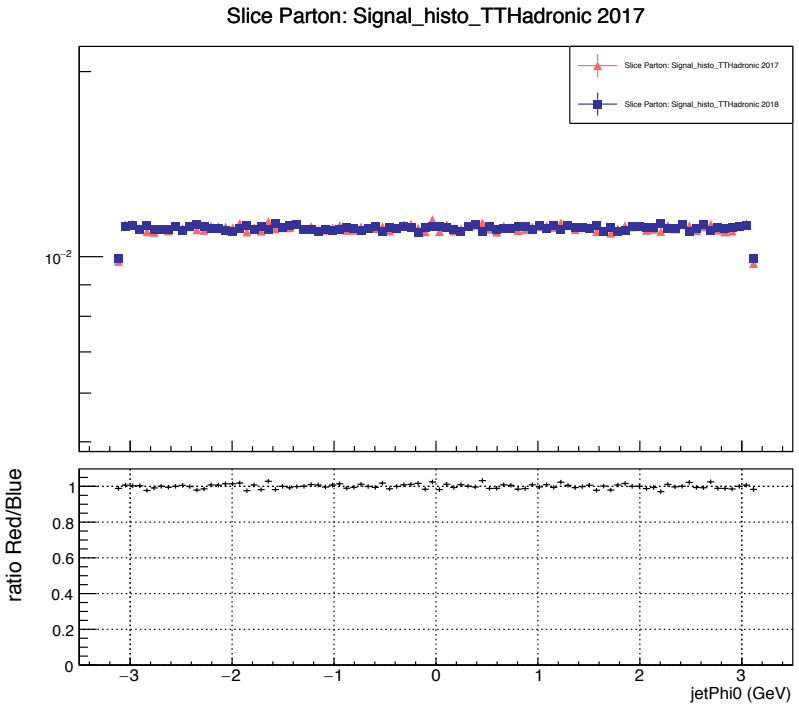
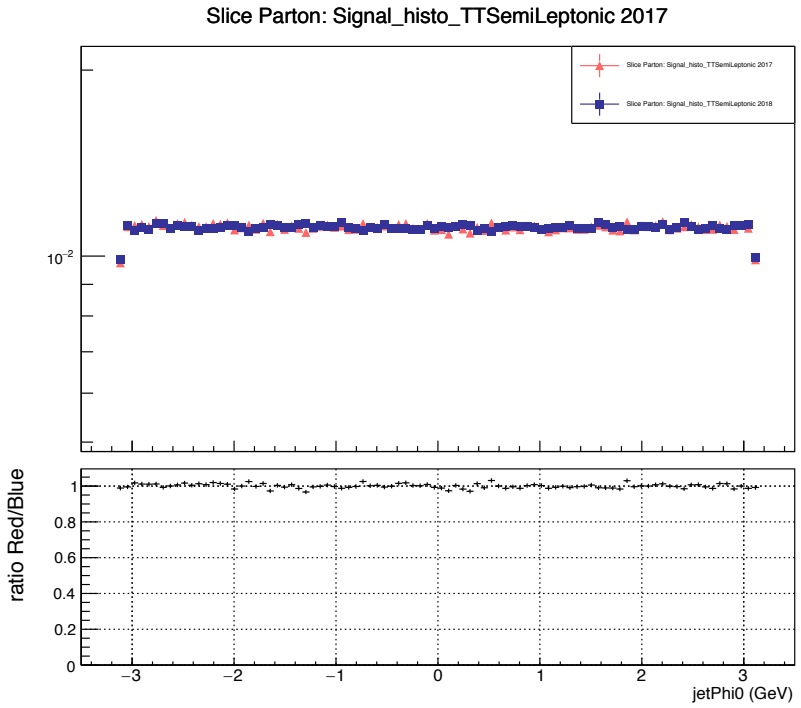
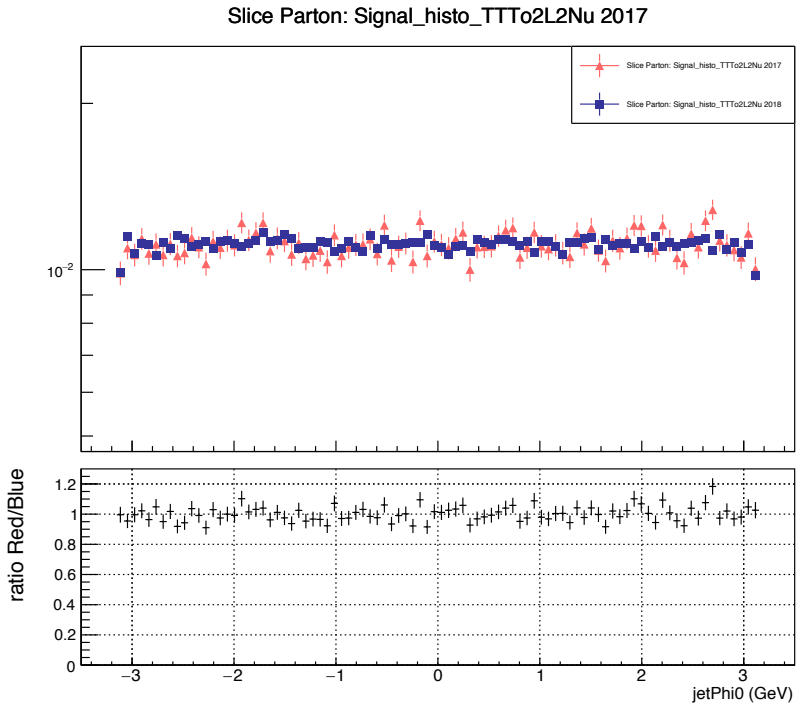




MC Closure Tests Nominal 2017 vs 2018 (shape) per slice Nominal







MC Closure Tests Nominal 2017 vs 2018 (shape) per slice Nominal