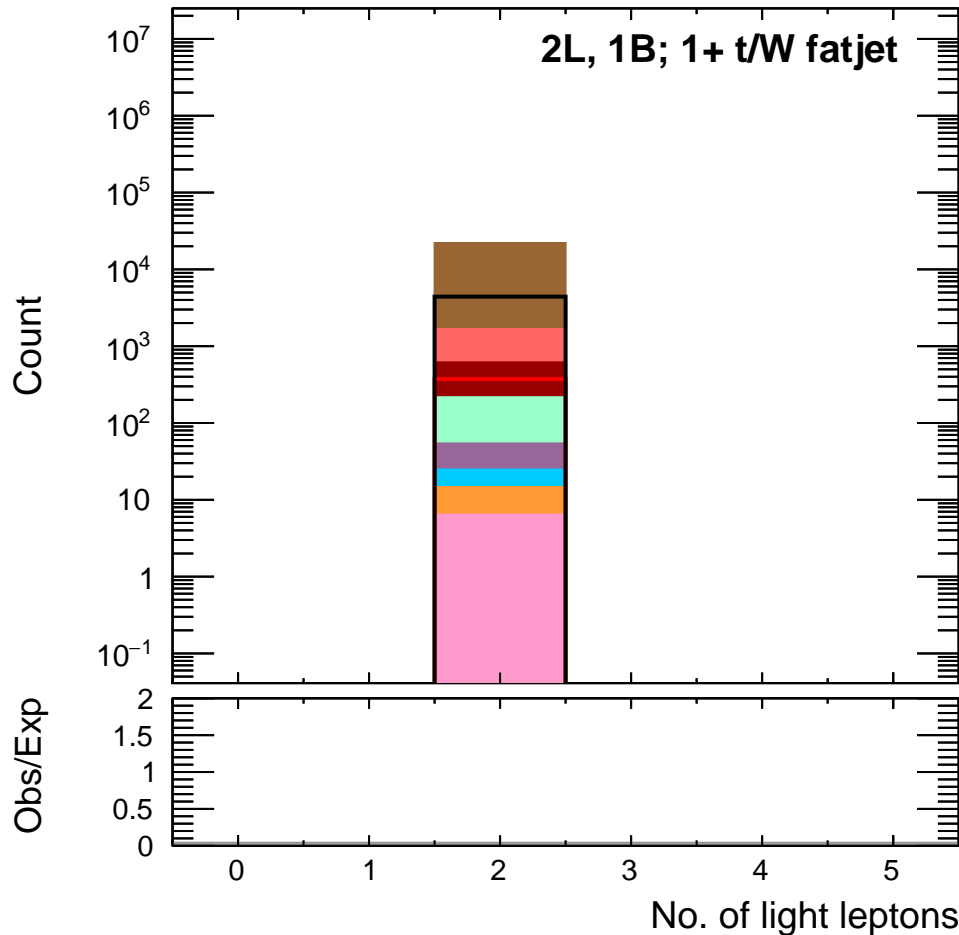
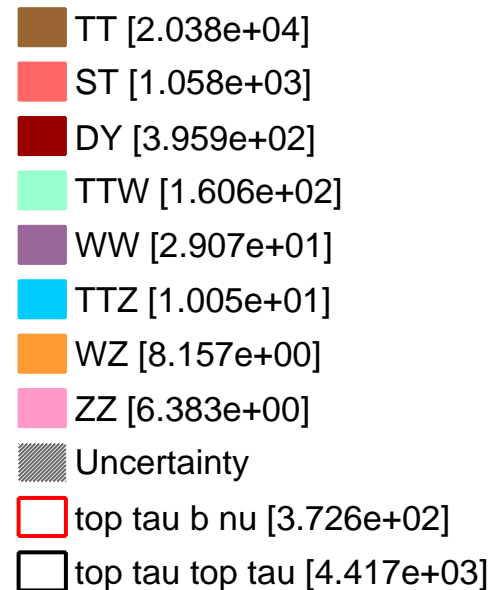


TrigAccept>0 && Event_IsTight>0 && PassMETFilters>0 && PassLumi.jsonFilter>0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)



Obs/Exp: 0.00 Exp: 2.204e+04



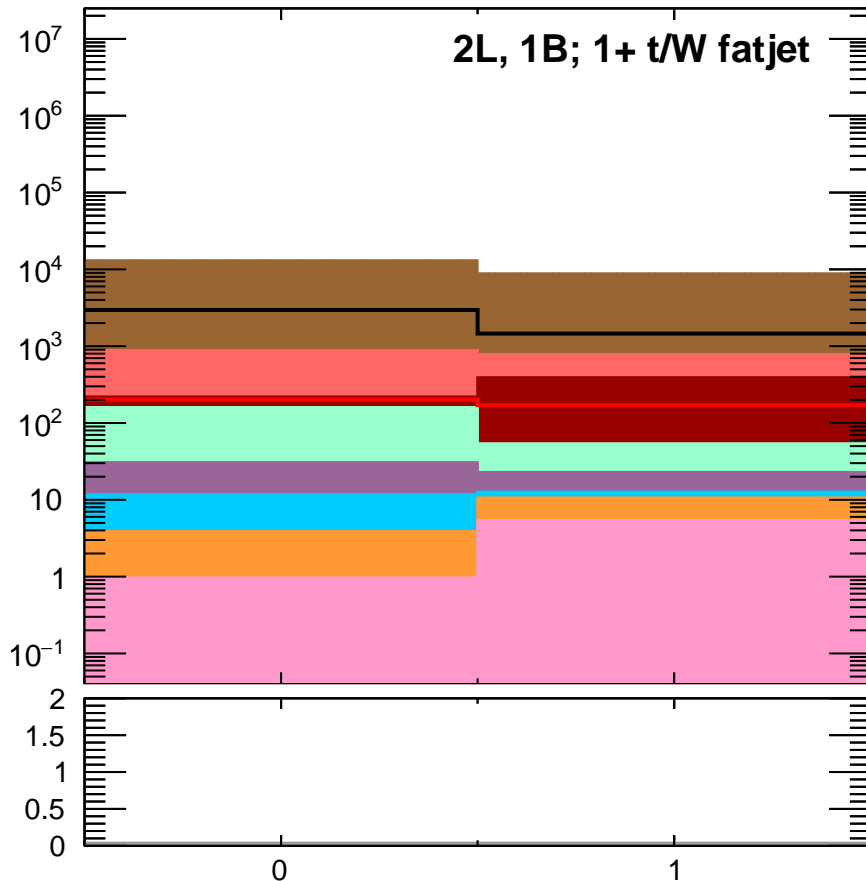
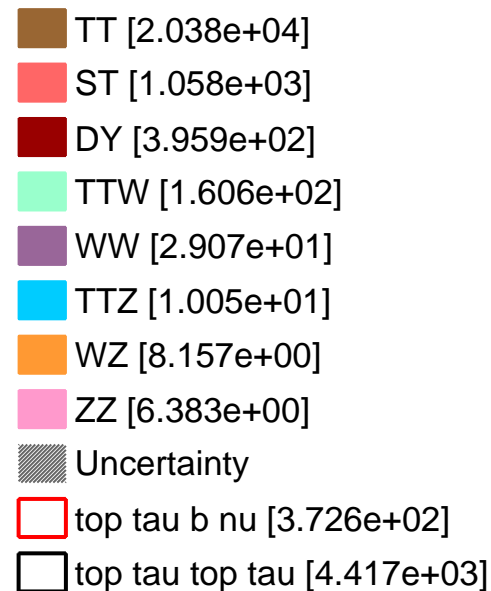
TrigAccept>0 && Event_IsTight>0 && PassMETFilters>0 && PassLumiJSONFilter>0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04



IsOSSF

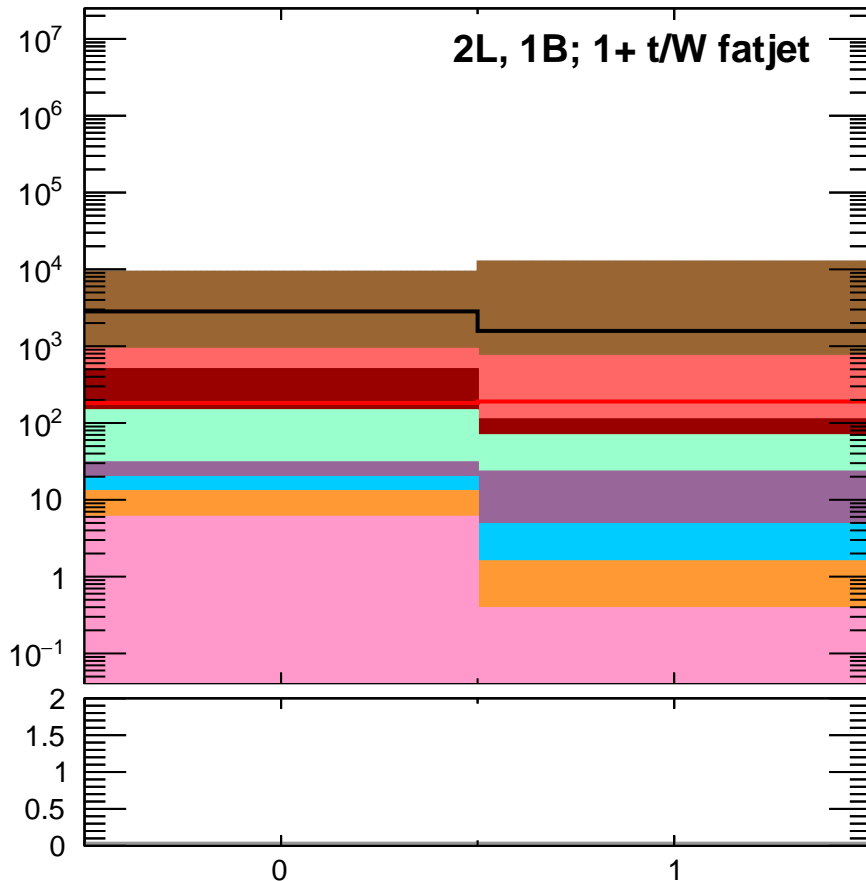
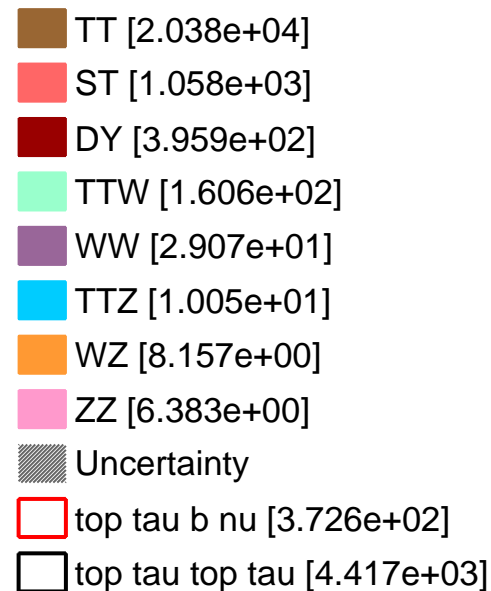
TrigAccept=0 && Event_IsTight=0 && PassMETFilters=0 && PassLumiJsfilters=0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04



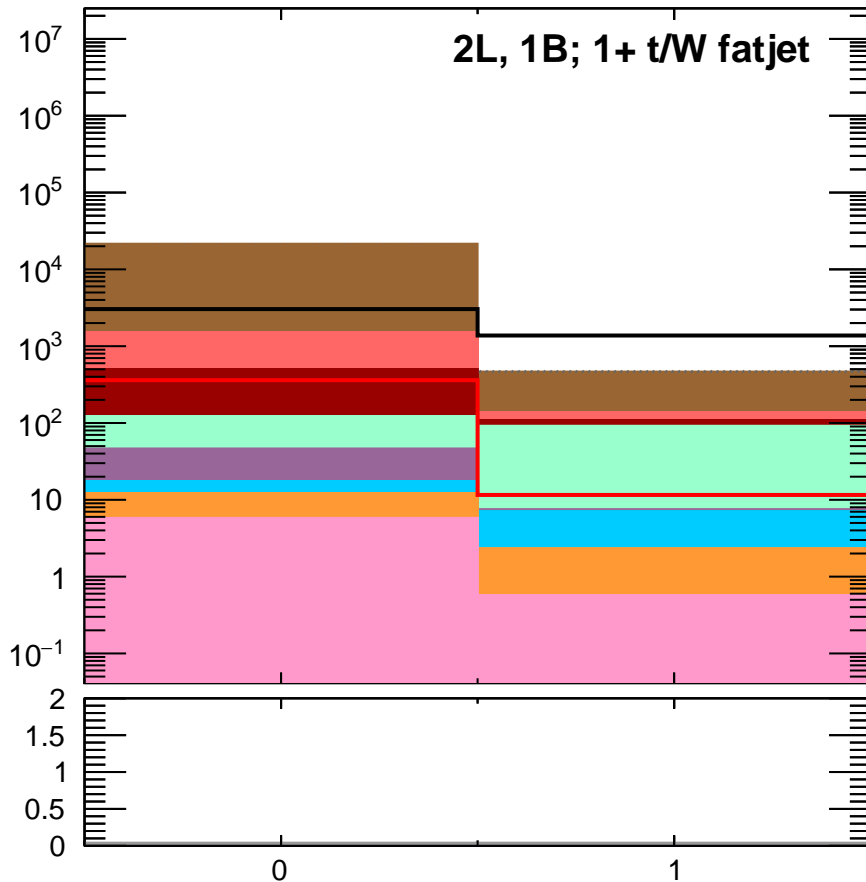
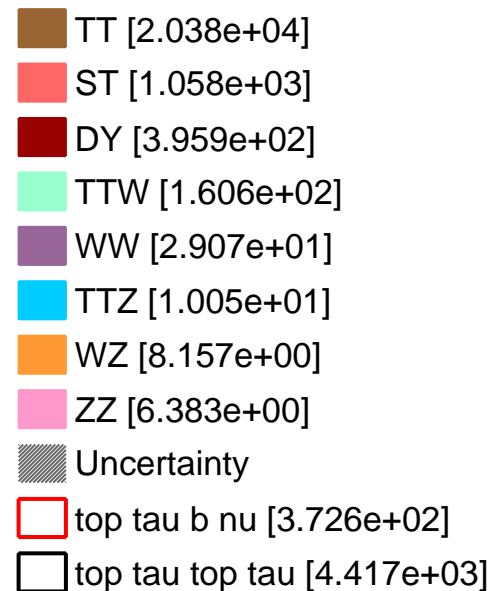
TrigAccept=0 && Event_IsTight=0 && PassMETFilters=0 && PassLumiJSONFilter=0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0j-MZhigh...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04



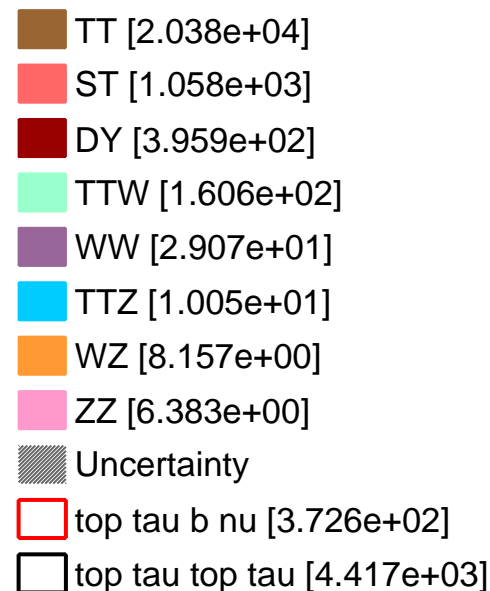
TrigAccept>0 && Event_IsTight>0 && PassMETFilters>0 && PassLumiJSONFilters>0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhigh...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04



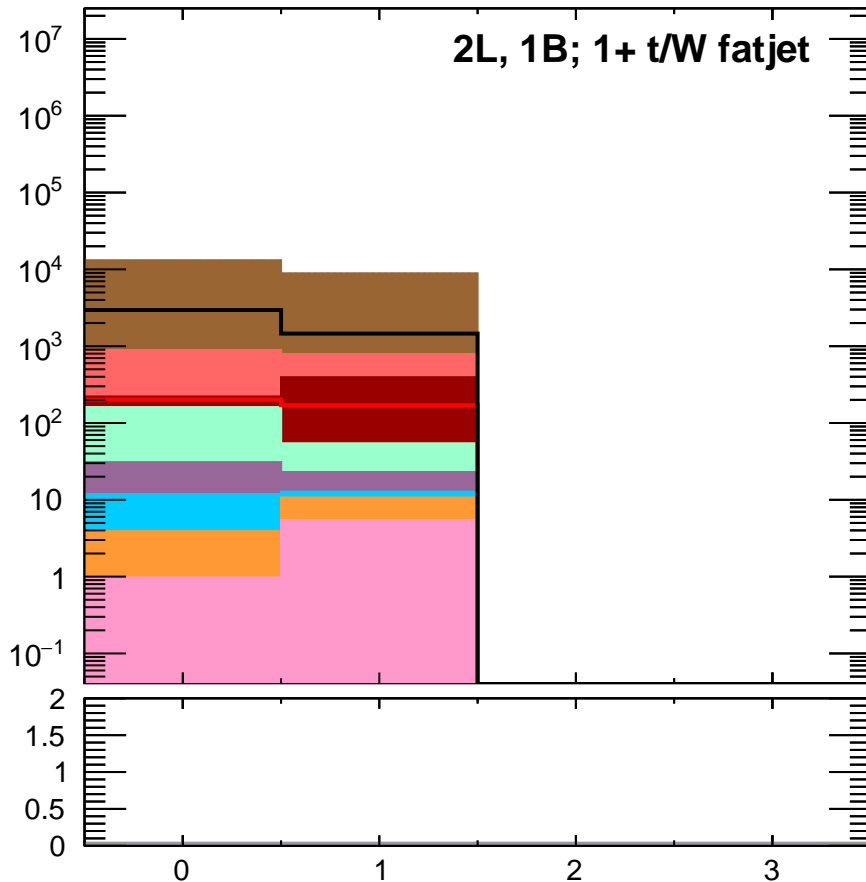
nOnZ

TrigAccept=0 && Event_IsTight=0 && PassMETFilters=0 && PassLumiJSONFilters=0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet



Obs/Exp: 0.00 Exp: 2.204e+04

TT [2.038e+04]

ST [1.058e+03]

DY [3.959e+02]

TTW [1.606e+02]

WW [2.907e+01]

TTZ [1.005e+01]

WZ [8.157e+00]

ZZ [6.383e+00]

Uncertainty

top tau b nu [3.726e+02]

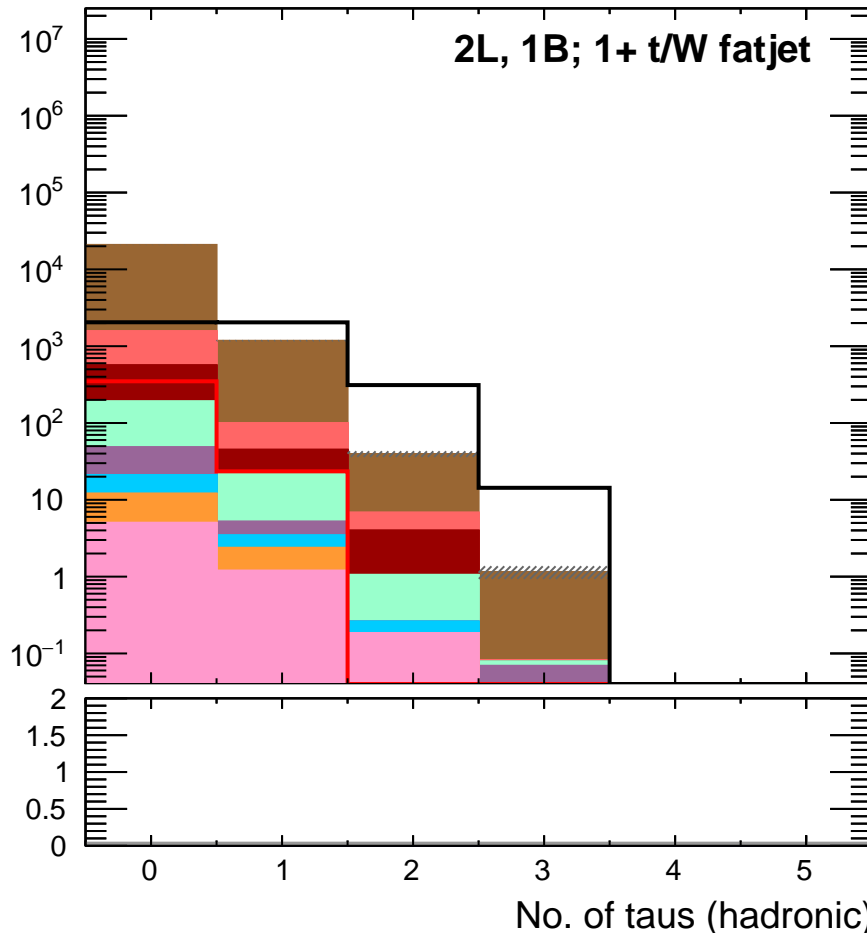
top tau top tau [4.417e+03]

OSSF_N

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet



Obs/Exp: 0.00 Exp: 2.204e+04

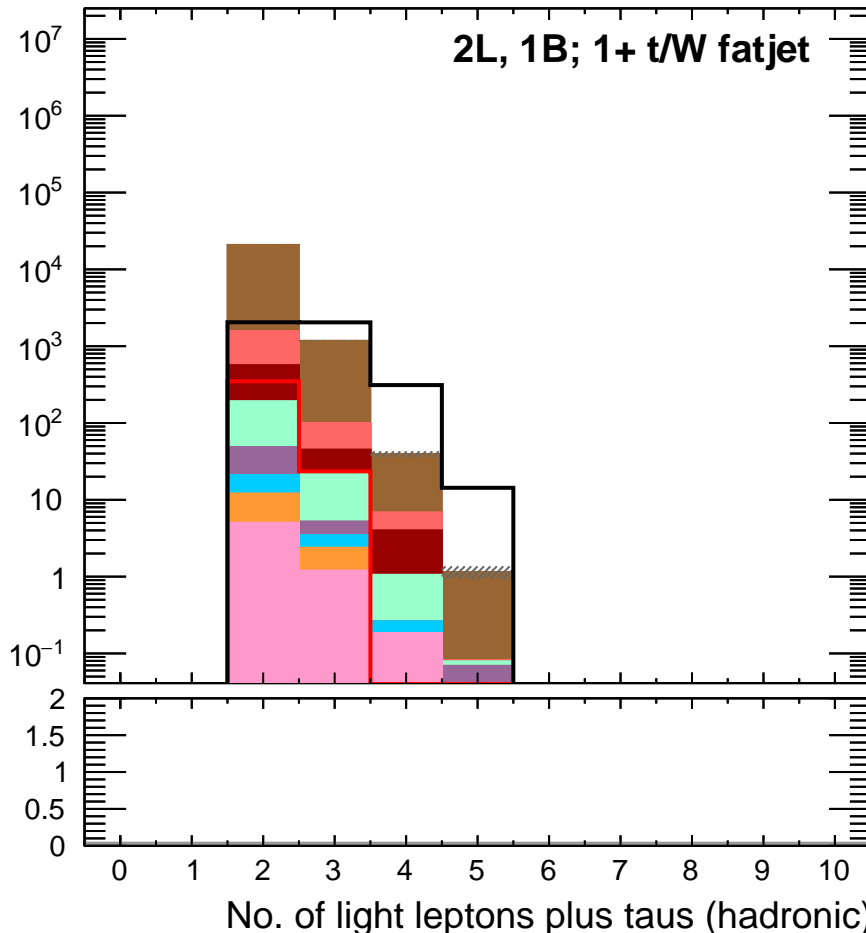
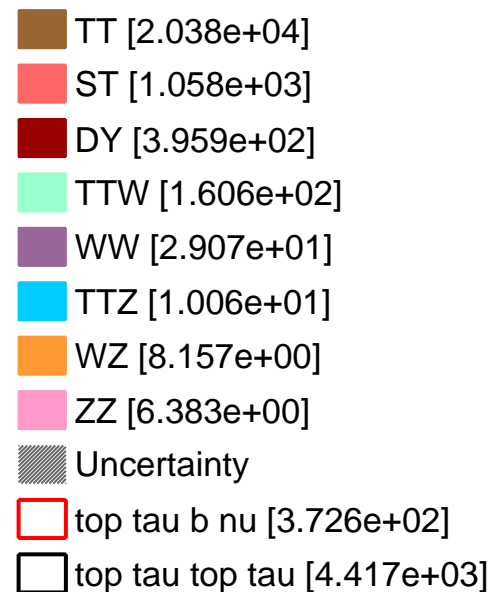
- TT [2.038e+04]
- ST [1.058e+03]
- DY [3.959e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.006e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]

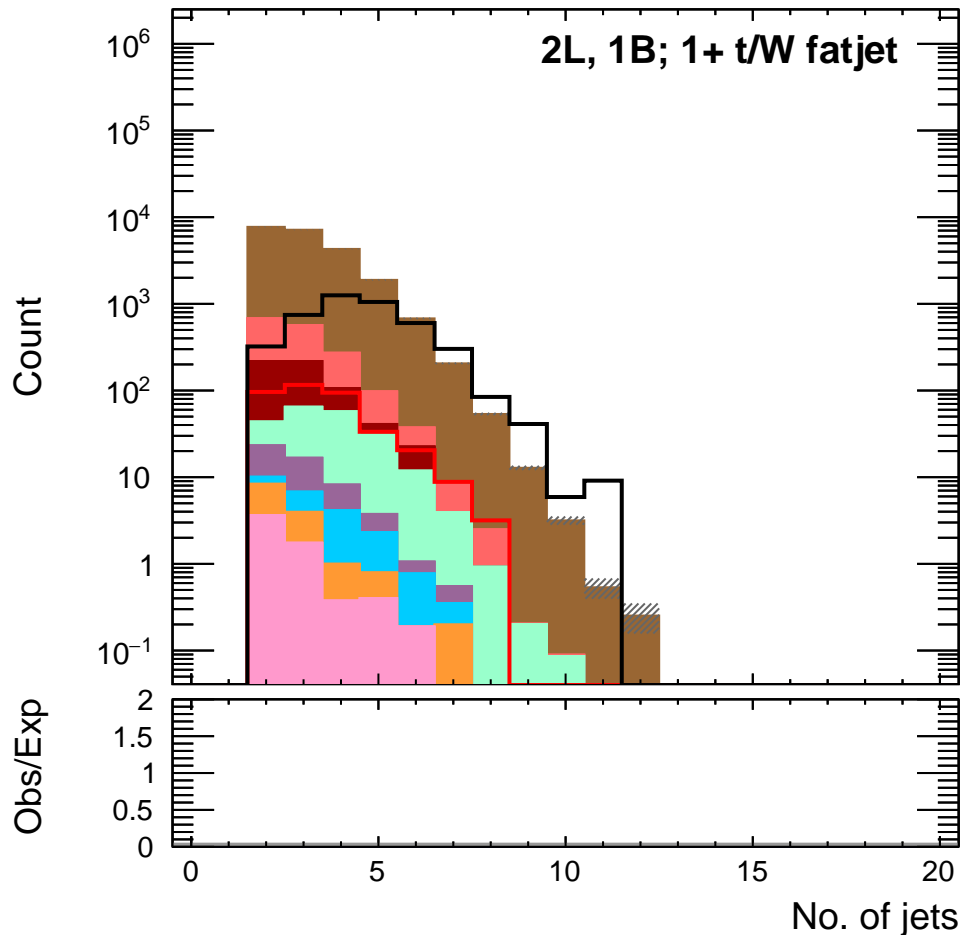
Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

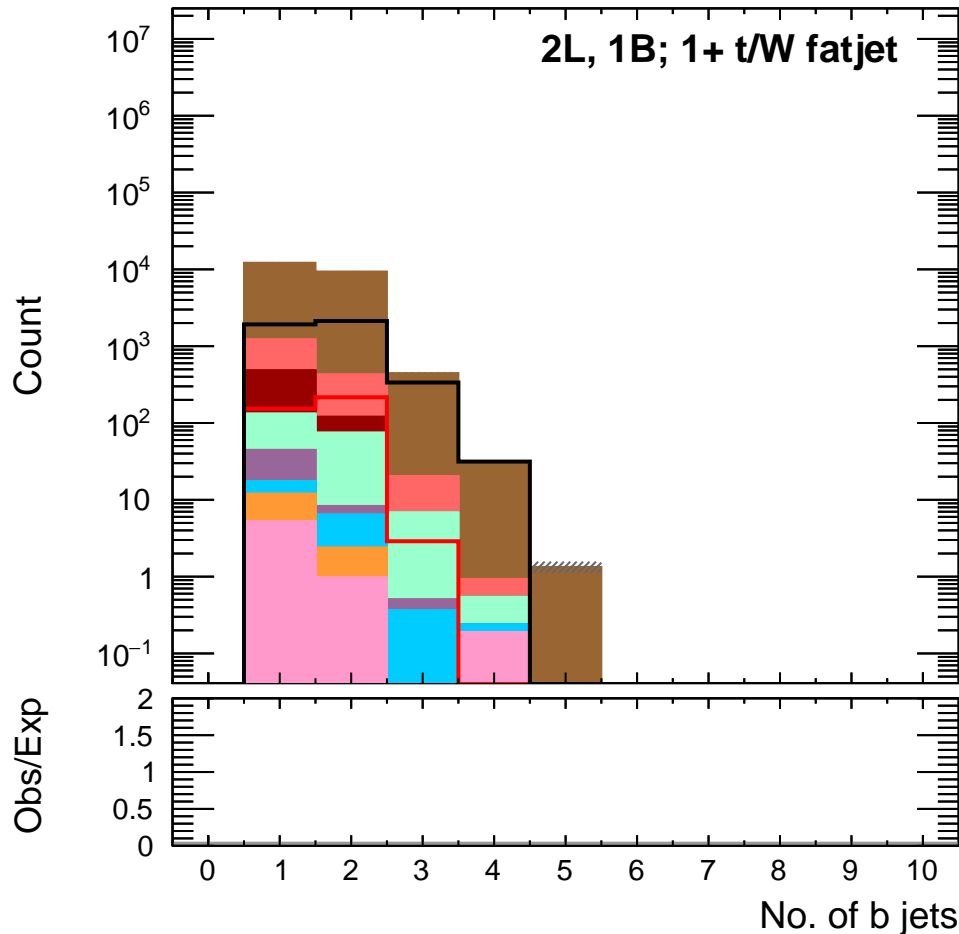
Obs/Exp: 0.00 Exp: 2.204e+04





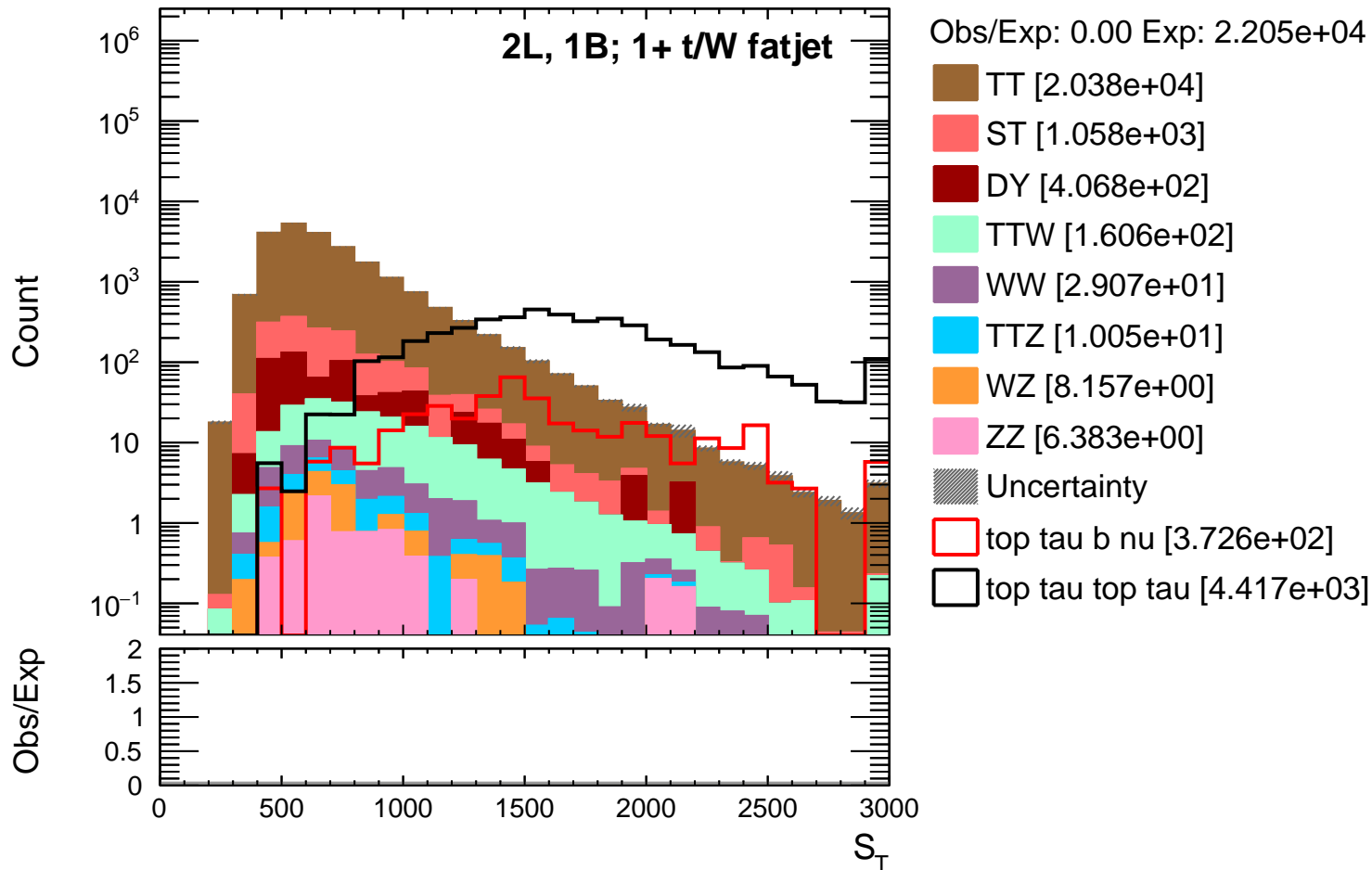
Obs/Exp: 0.00 Exp: 2.205e+04

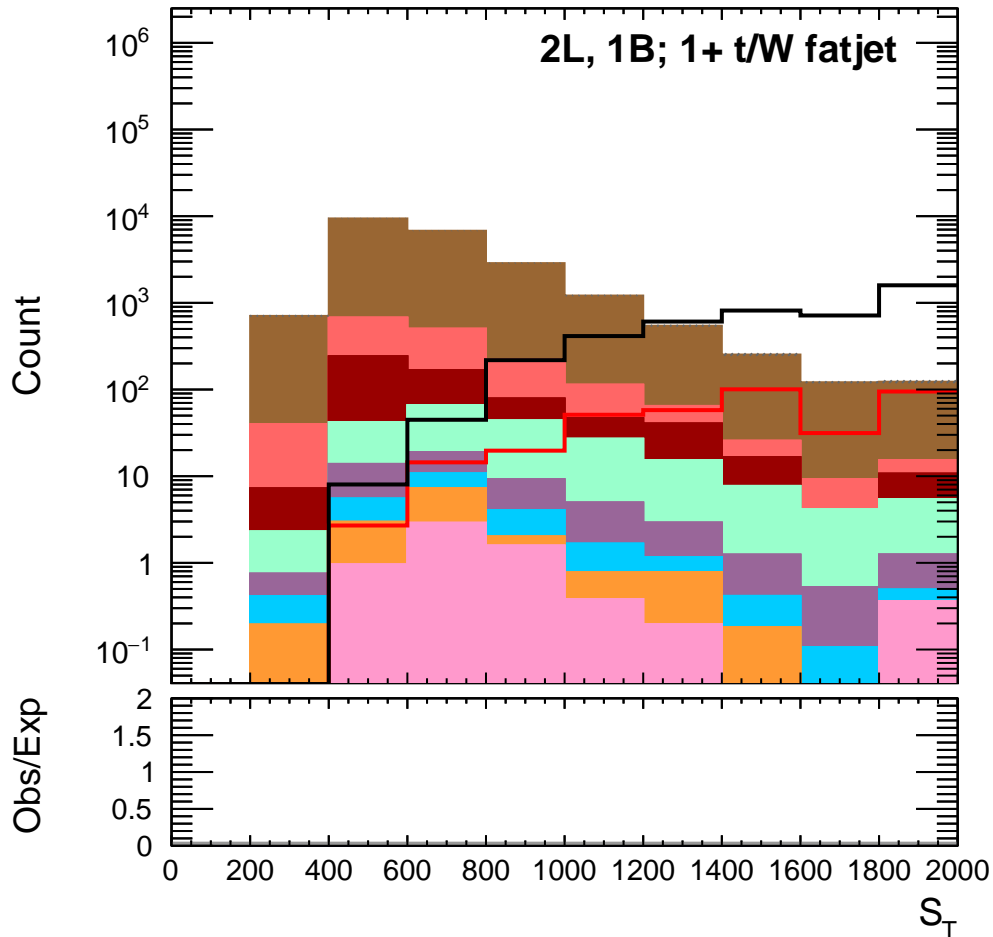
- TT [2.038e+04]
- ST [1.058e+03]
- DY [3.984e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.006e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]



Obs/Exp: 0.00 Exp: 2.204e+04

- TT [2.038e+04]
- ST [1.058e+03]
- DY [3.959e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.005e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]





Obs/Exp: 0.00 Exp: 2.205e+04

TT [2.038e+04]

ST [1.058e+03]

DY [3.989e+02]

TTW [1.606e+02]

WW [2.907e+01]

TTZ [1.005e+01]

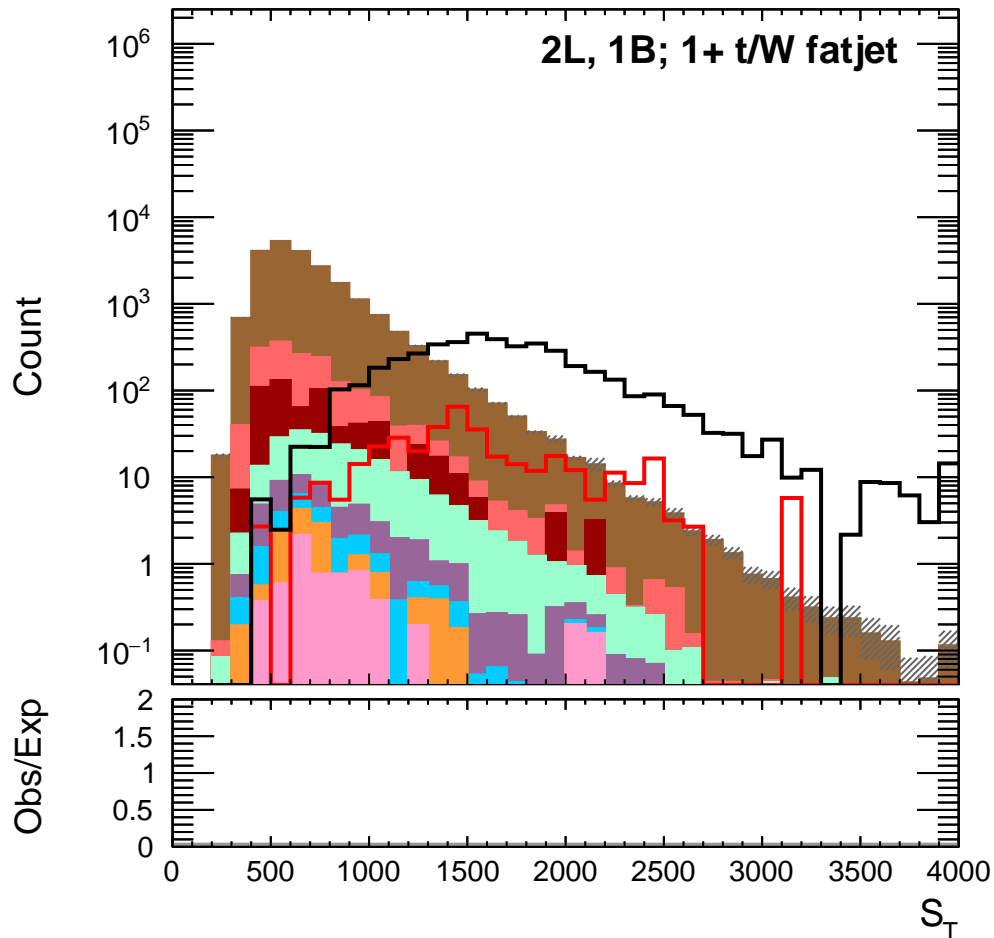
WZ [8.157e+00]

ZZ [6.383e+00]

Uncertainty

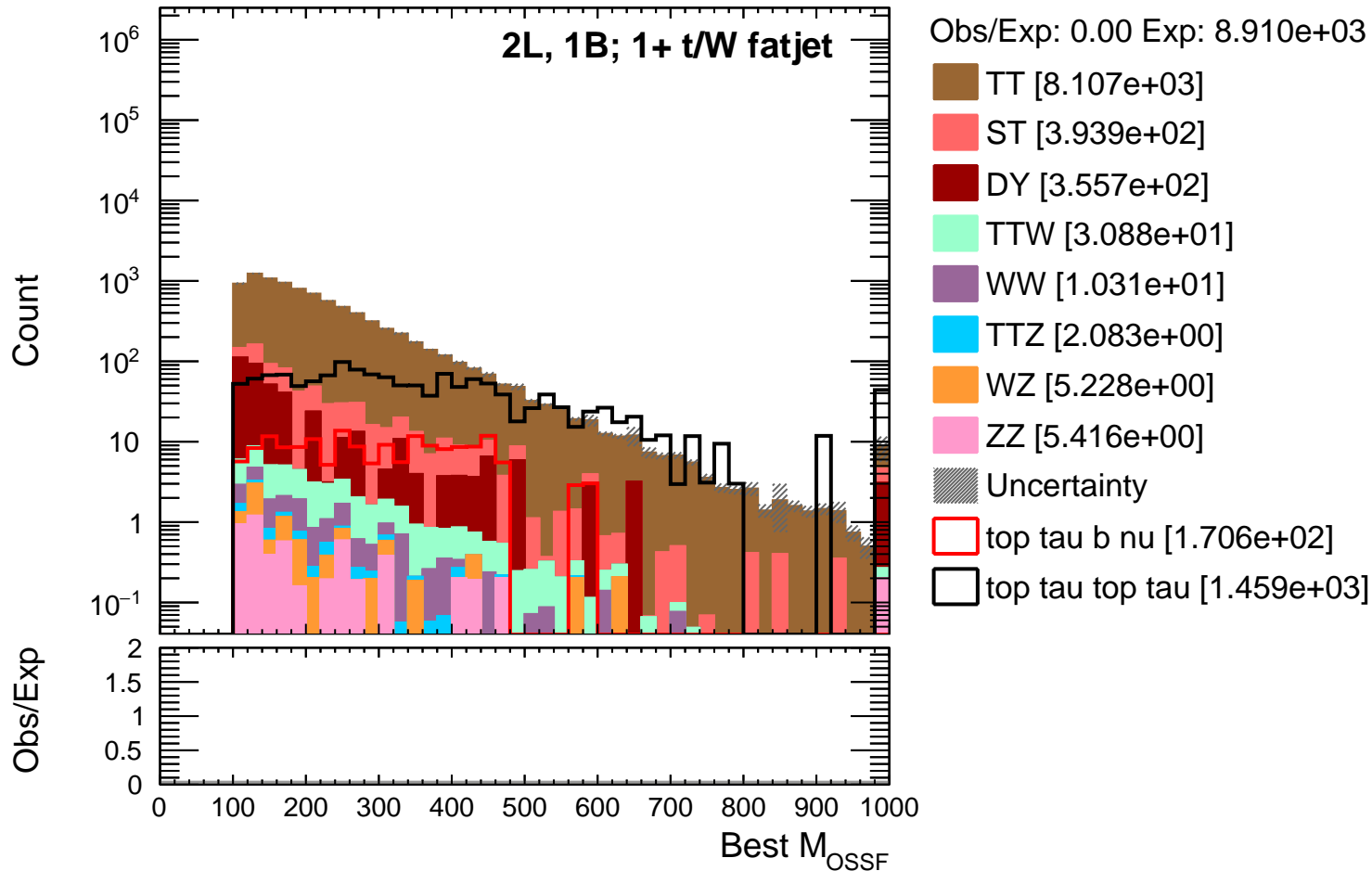
top tau b nu [3.726e+02]

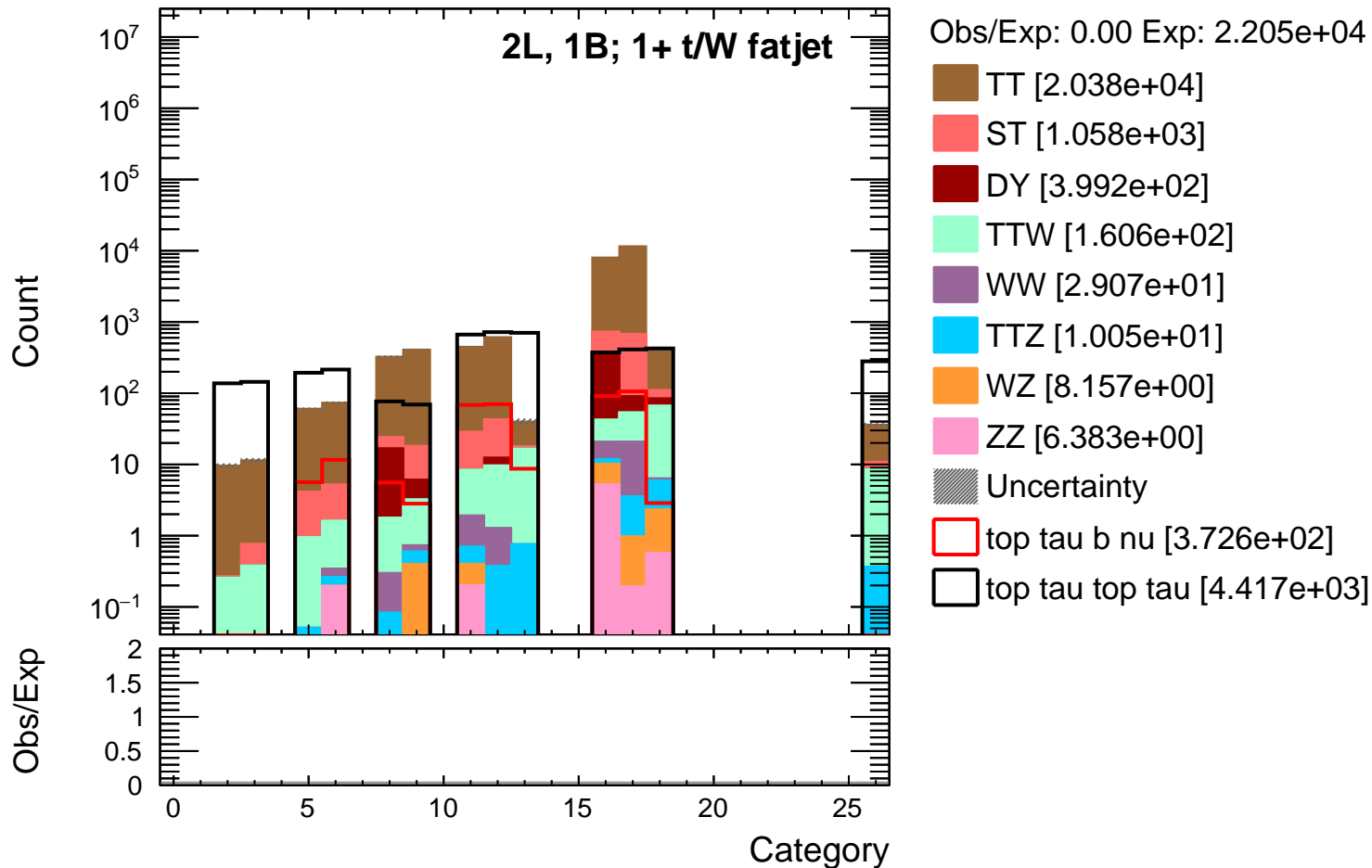
top tau top tau [4.417e+03]



Obs/Exp: 0.00 Exp: 2.205e+04

- TT [2.038e+04]
- ST [1.058e+03]
- DY [4.068e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.005e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]





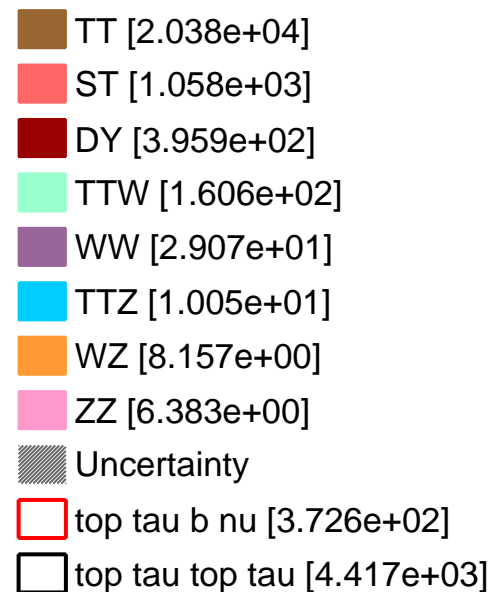
TrigAccept=0 && Event_IsTight=0 && PassMETFilters=0 && PassLumiJSONFilter=0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

Obs/Exp

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04



Lepton-Inclusive Category

TrigAccept>0 && Event_IsTight>0 && PassMETFilters>0 && PassLumiJSONFilter>0 && LightLepton_N==2 && CustomJet_N>1 && CustomBJet_N>0 && nOnZ==0 && (OSSF_N==0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N>0 || LooseWFatJet_N>0)

Count

2L, 1B; 1+ t/W fatjet

Obs/Exp: 0.00 Exp: 2.204e+04

TT [2.038e+04]

ST [1.058e+03]

DY [3.959e+02]

TTW [1.606e+02]

WW [2.907e+01]

TTZ [1.005e+01]

WZ [8.157e+00]

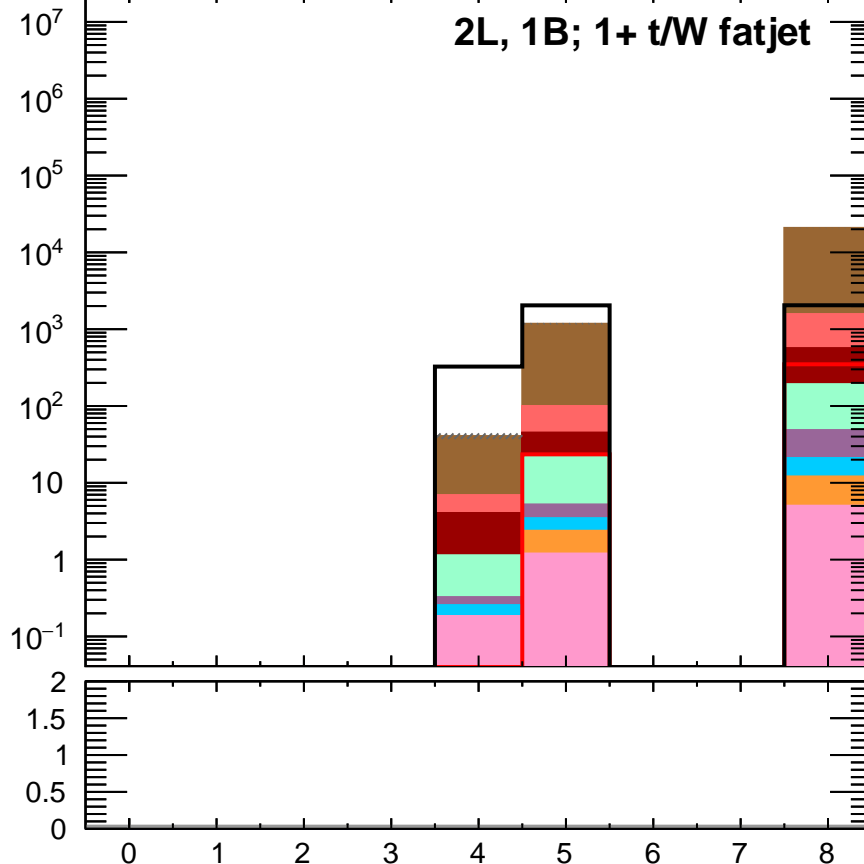
ZZ [6.383e+00]

Uncertainty

top tau b nu [3.726e+02]

top tau top tau [4.417e+03]

Obs/Exp



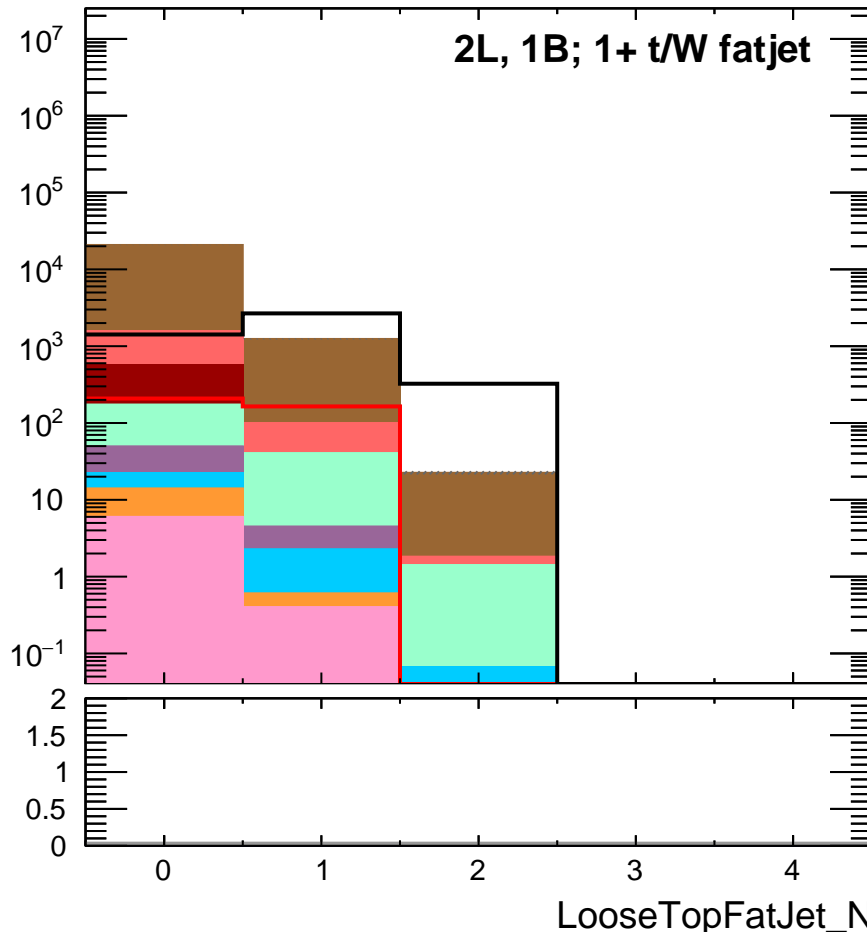
EXO-21-002 Category

TrigAccept=0 && Event_IsTight=0 && PassMETFilters=0 && PassLumiJSONFilter=0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF0]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)

Count

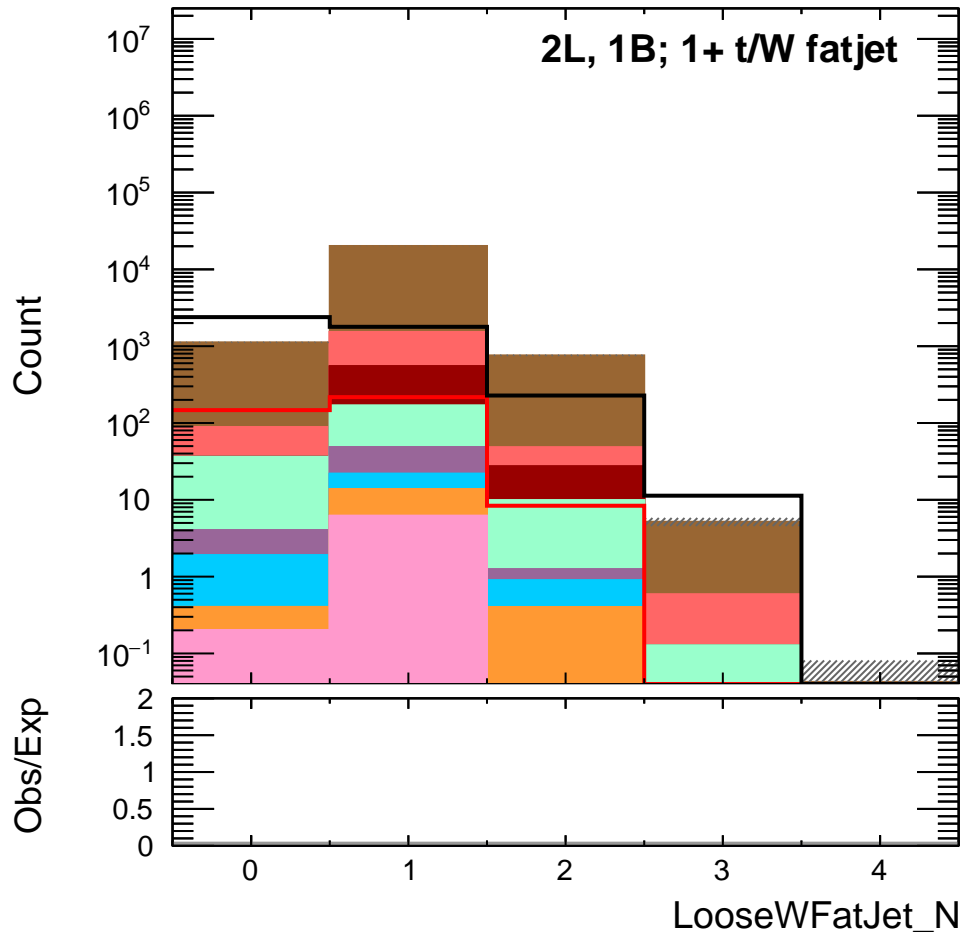
Obs/Exp

2L, 1B; 1+ t/W fatjet

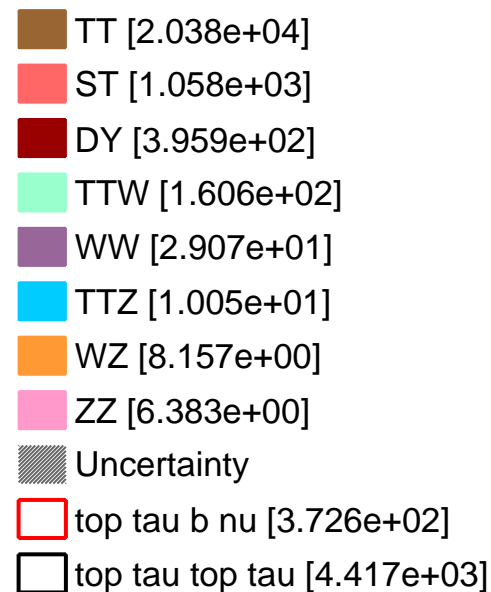


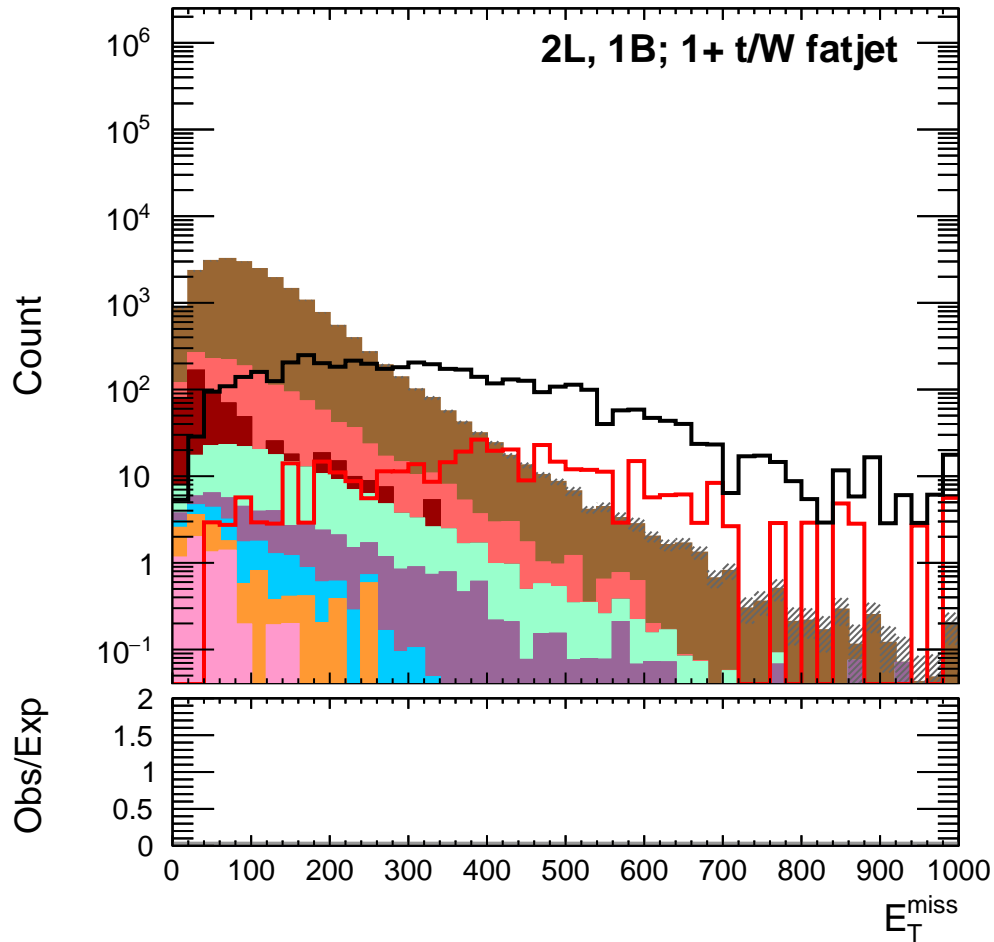
LooseTopFatJet_N

TrigAccept>0 && Event_IsTight>0 && PassMETFilters>0 && PassLumi.jsonFilter>0 && LightLepton_N==2 && CustomJet_N > 1 && CustomBJet_N > 0 && nOnZ==0 && (OSSF_N == 0 || Event_BestMOSSF[j]-MZhig...)&&(LooseTopFatJet_N > 0 || LooseWFatJet_N > 0)



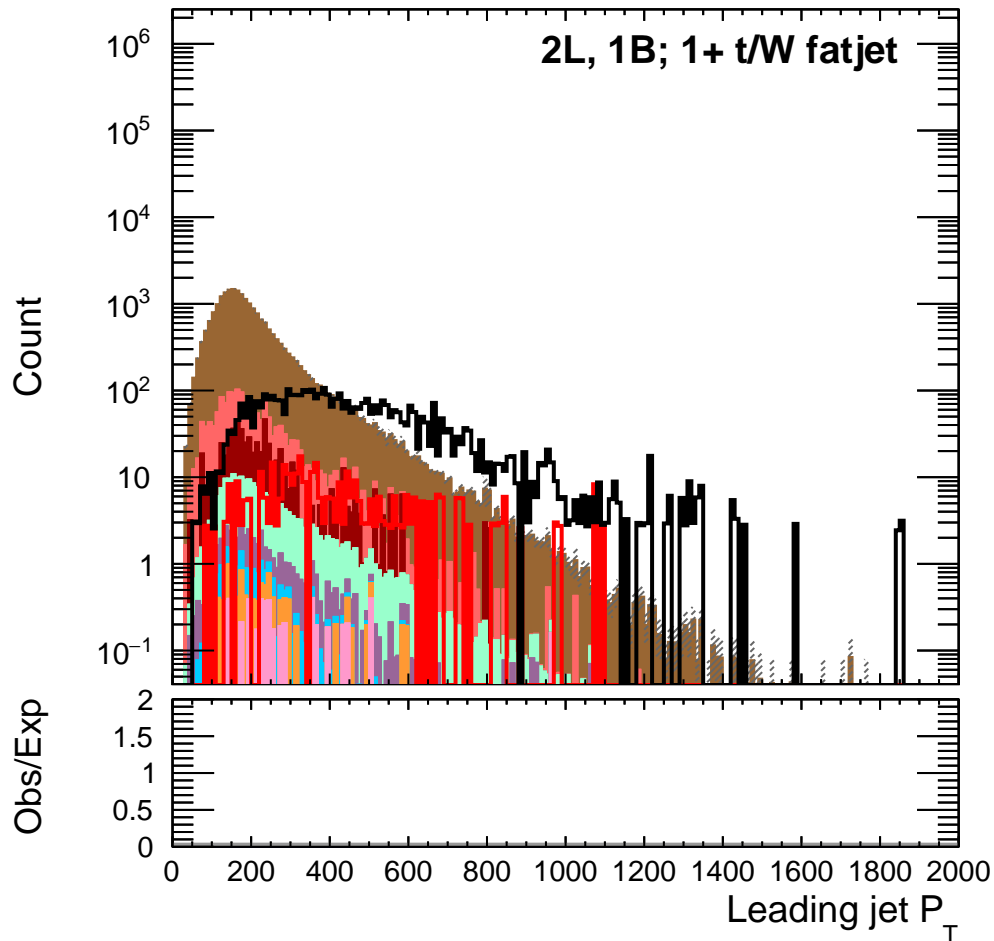
Obs/Exp: 0.00 Exp: 2.204e+04





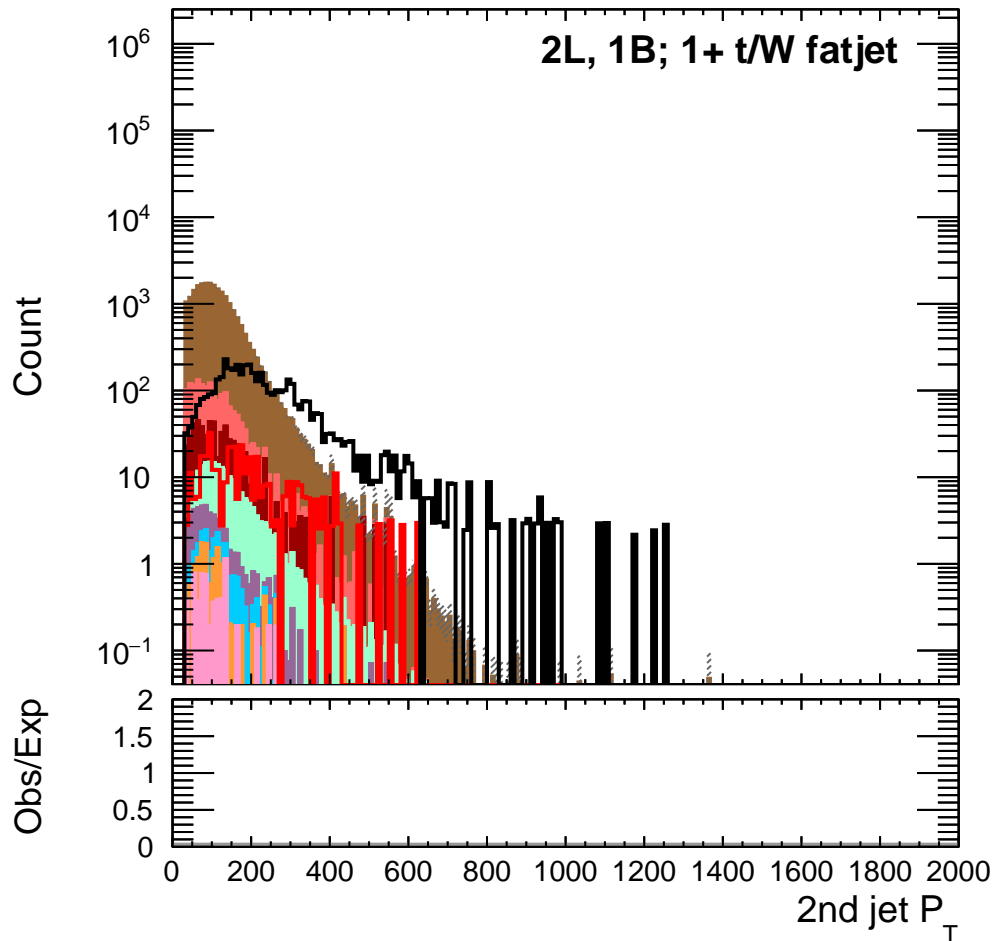
Obs/Exp: 0.00 Exp: 2.204e+04

- TT [2.038e+04]
- ST [1.058e+03]
- DY [3.965e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.006e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]

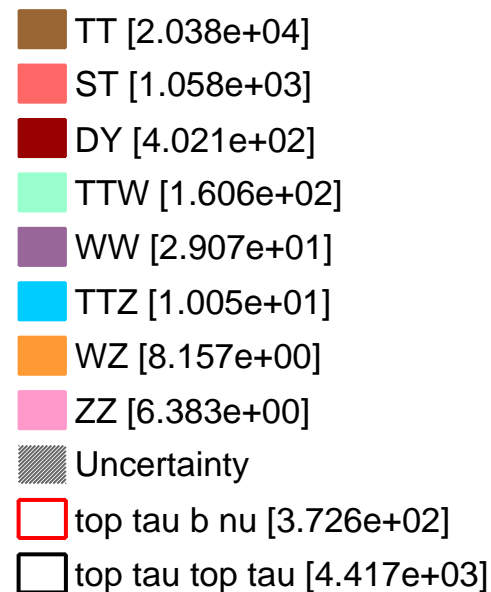


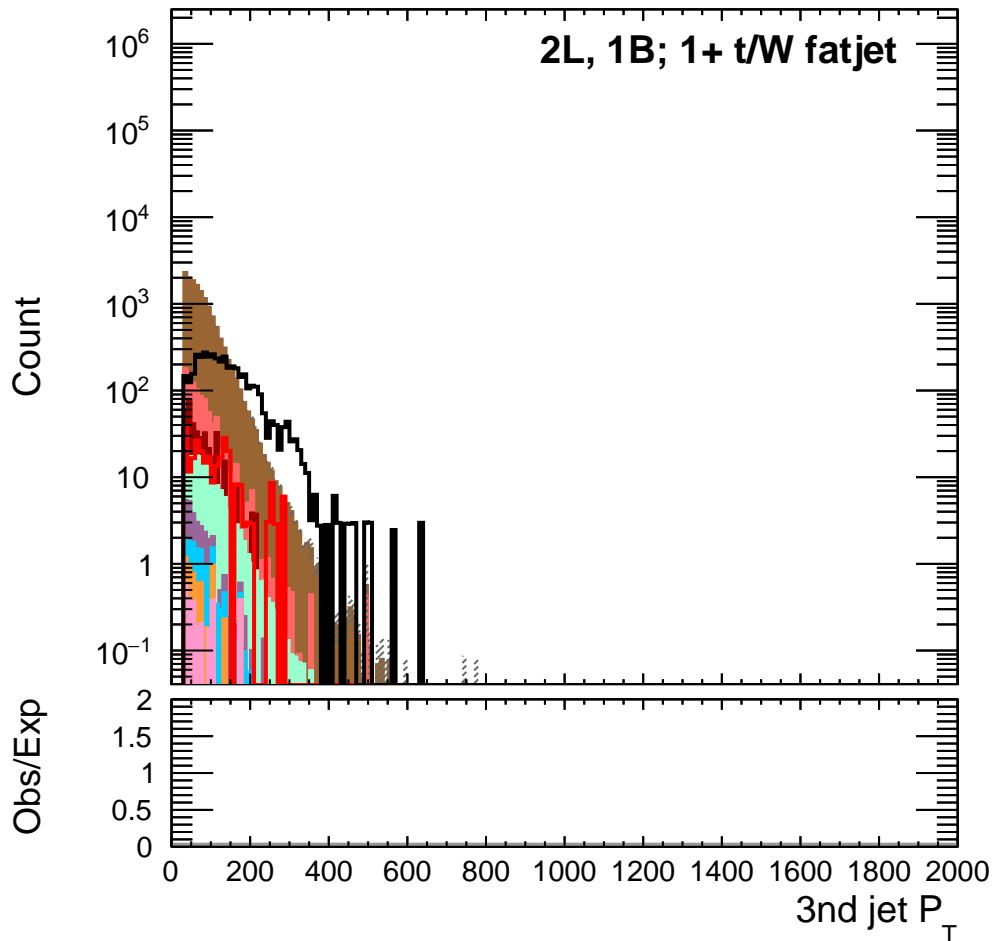
Obs/Exp: 0.00 Exp: 2.208e+04

- TT [2.038e+04]
- ST [1.058e+03]
- DY [4.330e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.007e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]



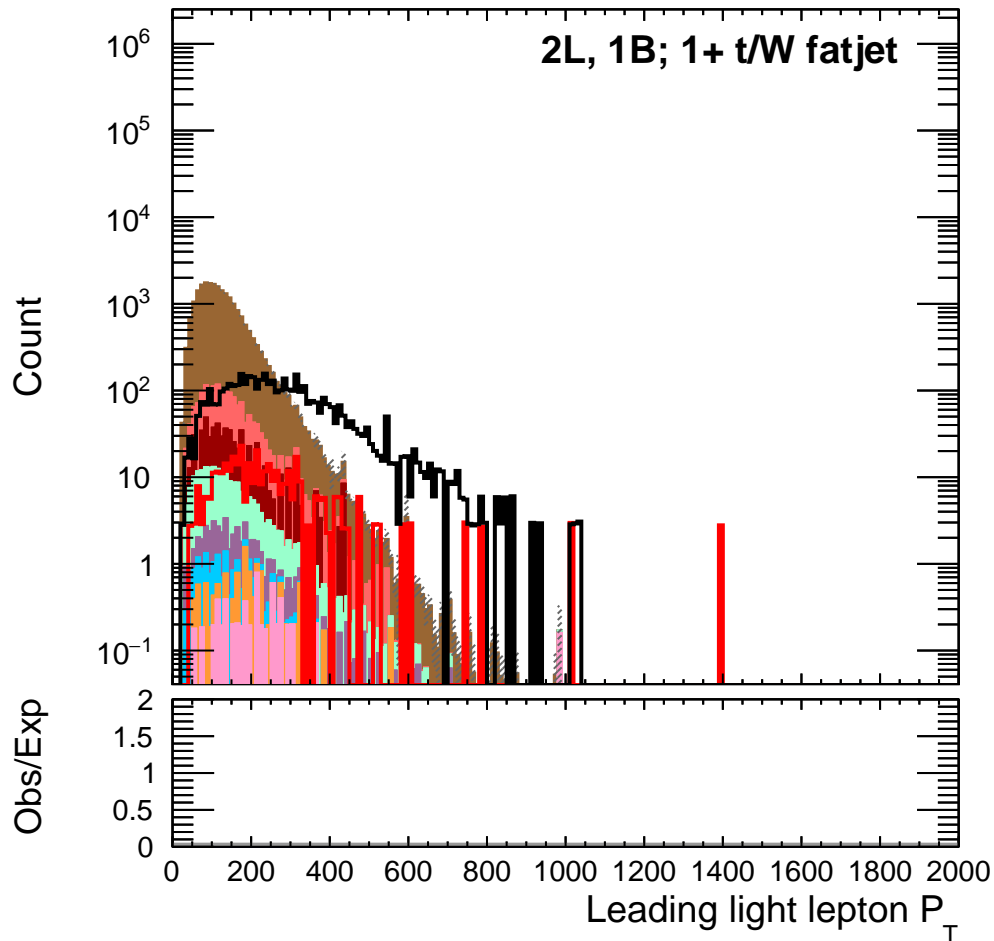
Obs/Exp: 0.00 Exp: 2.205e+04





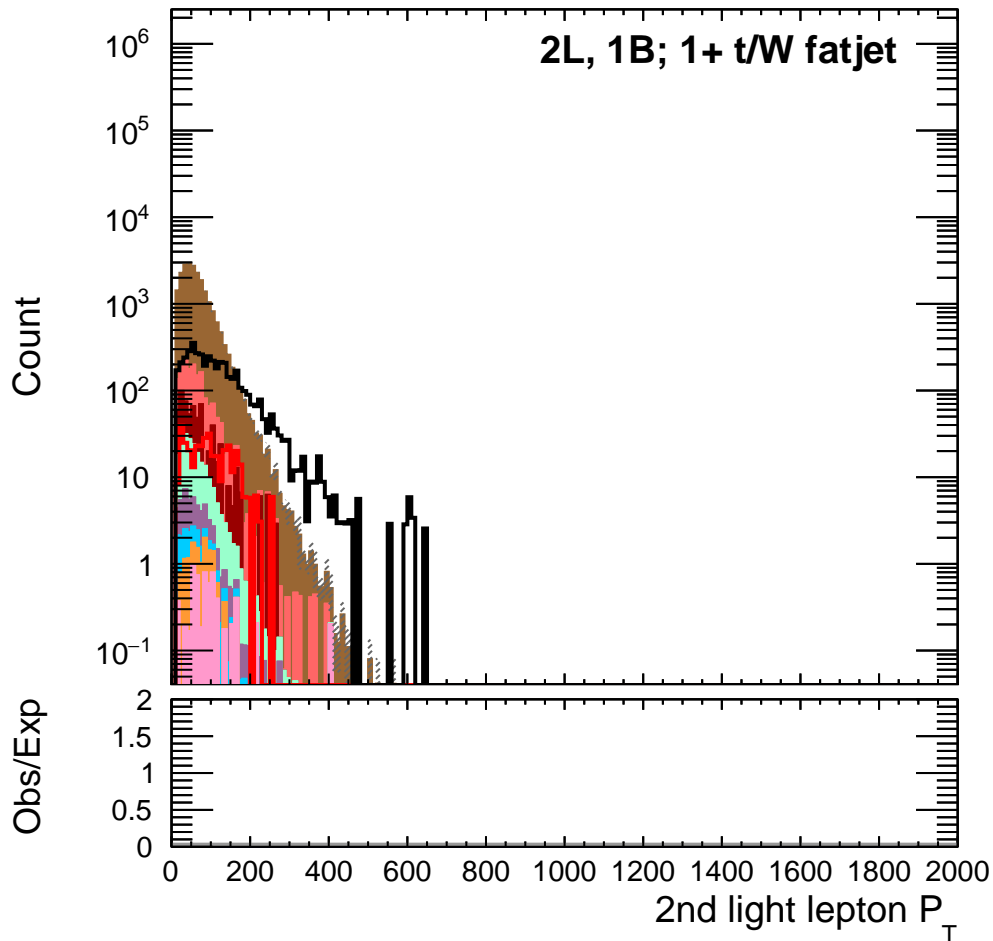
Obs/Exp: 0.00 Exp: 1.432e+04

- TT [1.332e+04]
- ST [5.951e+02]
- DY [2.330e+02]
- TTW [1.401e+02]
- WW [1.590e+01]
- TTZ [8.345e+00]
- WZ [3.438e+00]
- ZZ [2.721e+00]
- Uncertainty
- top tau b nu [2.764e+02]
- top tau top tau [4.095e+03]

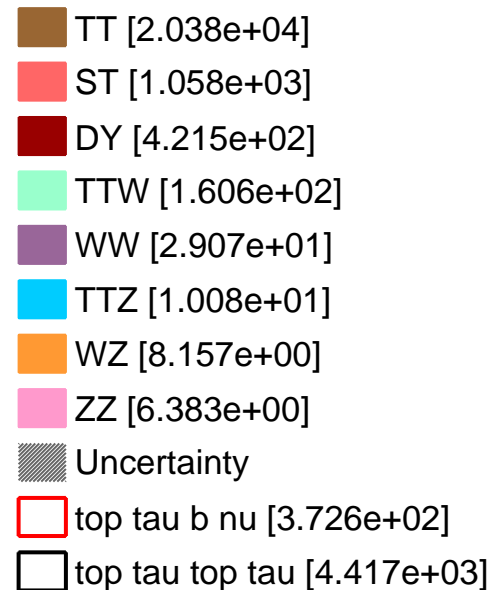


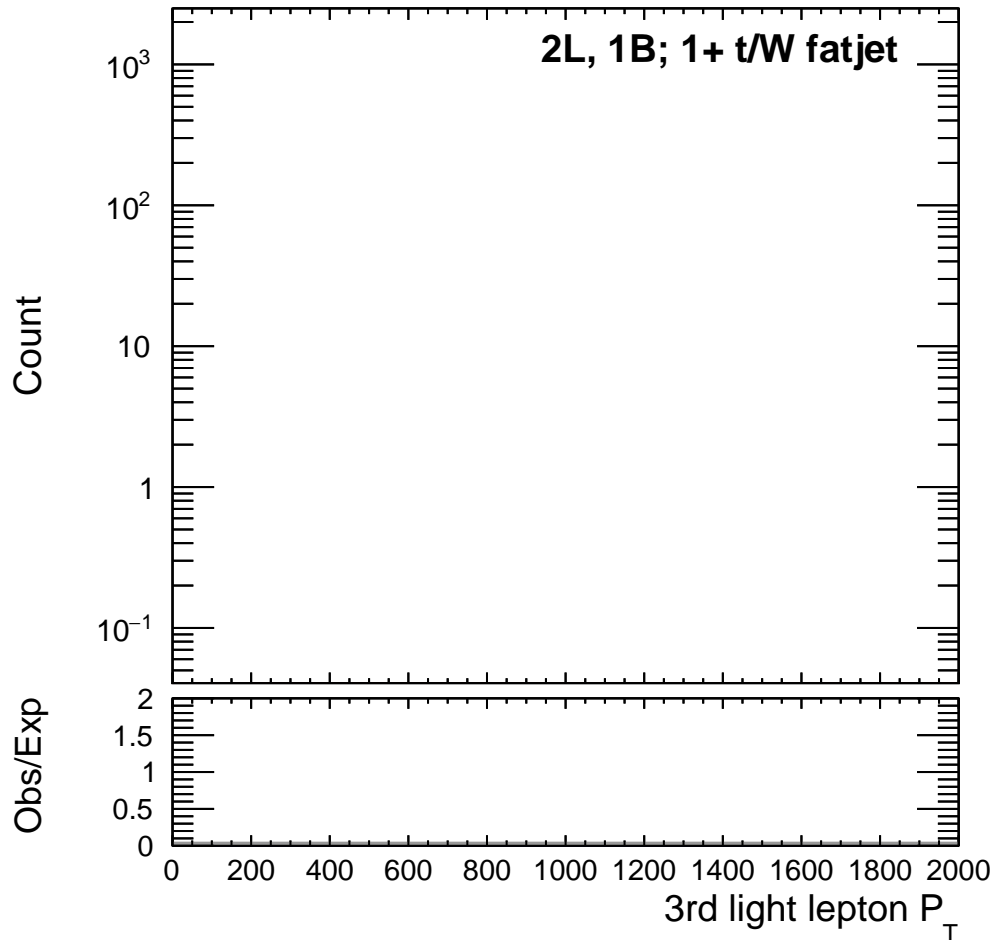
Obs/Exp: 0.00 Exp: 2.207e+04

- TT [2.038e+04]
- ST [1.059e+03]
- DY [4.162e+02]
- TTW [1.606e+02]
- WW [2.907e+01]
- TTZ [1.006e+01]
- WZ [8.157e+00]
- ZZ [6.383e+00]
- Uncertainty
- top tau b nu [3.726e+02]
- top tau top tau [4.417e+03]



Obs/Exp: 0.00 Exp: 2.207e+04





Obs/Exp: N/A Exp: 0.000e+00

