sample	nEventsIn	weightIn
HT.Run2012A-22Jan2013.jsonWeight	6489409	5.44e+06
HTMHTParked.Run2012B-22Jan2013.jsonWeight	38426320	3.48e+07
HTMHTParked.Run2012C-22Jan2013.jsonWeight	61486487	5.92e+07
HTMHTParked.Run2012D-22Jan2013.jsonWeight	65833371	6.26e+07
T_s_powheg.puWeight.bTagWeight	243961	2.51e+05
T_tW_powheg.puWeight.bTagWeight	497658	5.11e+05
T_t_powheg.puWeight.bTagWeight	3694226	3.80e+06
Tbar_s_powheg.puWeight.bTagWeight	139973	1.44e+05
Tbar_tW_powheg.puWeight.bTagWeight	493459	5.07e+05
Tbar_t_powheg.puWeight.bTagWeight	1935072	1.99e+06
WW_py6.puWeight.bTagWeight	9840430	1.01e+07
WZ_py6.puWeight.bTagWeight	9872282	1.02e+07
ZZ_py6.puWeight.bTagWeight	9783908	1.01e+07
dyll_HT_400ToInf_M-50.puWeight.bTagWeight	2695789	2.78e+06
dyll_HT_200To400_M-50.puWeight.bTagWeight	6892777	7.10e+06
dyll_HT_10To200_M-50.puWeight.bTagWeight	8111524	8.36e+06
ttbar_CT10_powheg.puWeight.bTagWeight.topPtWeight	26406722	2.71e+07
wj_lv_mg_ht_400ToInf_LO.puWeight.bTagWeight.xsWeight	4875847	5.71e+06
wj_lv_mg_ht_250To300_LO.puWeight.bTagWeight.xsWeight	4924989	6.01e+06
wj_lv_mg_ht_300To400_LO.puWeight.bTagWeight.xsWeight	5125023	6.48e+06
wj_lv_mg_ht_200To250_LO.puWeight.bTagWeight.xsWeight	9799771	1.30e+07
wj_lv_mg_ht_10To150_LO.puWeight.bTagWeight	13992012	1.44e+07
wj_lv_mg_ht_150To200_LO.puWeight.bTagWeight.xsWeight	21126208	2.41e+07
zinv_mg_ht_400Inf.puWeight.bTagWeight	5079710	5.23e+06
zinv_mg_ht_200_400.puWeight.bTagWeight	9649618	9.93e+06
zinv_mg_ht_100_200.puWeight.bTagWeight	9860059	1.01e+07
zinv_mg_ht_50_100.puWeight.bTagWeight	23727997	2.44e+07

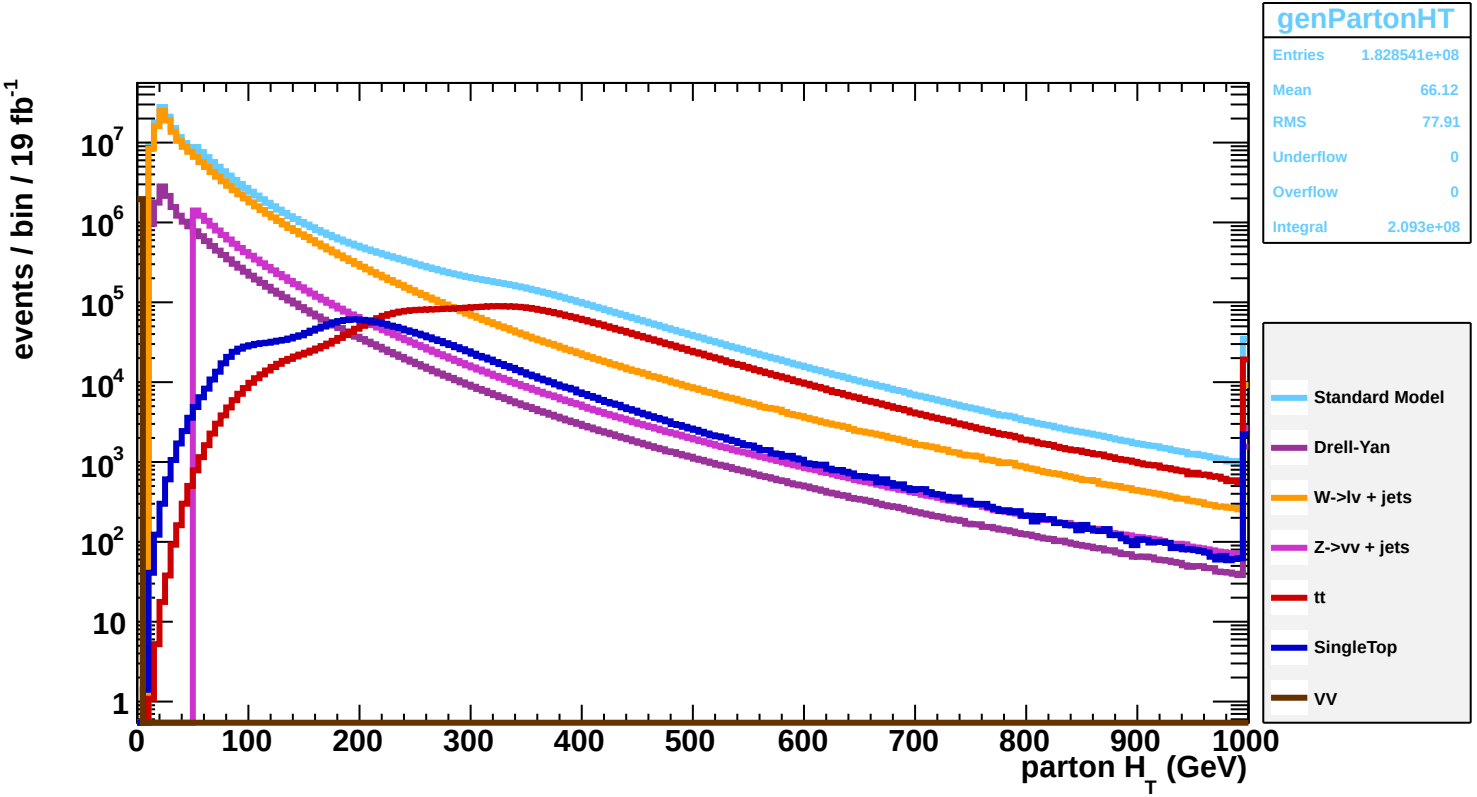
file created at Tue Sep 16 01:14:04 2014

Calculables	
ecalLaserCalibEvent2012	pass Ecal laser calibration 2012 event filter
electronIndicesNonIsoPF	pass ptMin & id; fail iso
electronIndicesOtherPF	pass ptMin; fail id
electronIndicesPF	pt>10.0; (2012 Veto)
electronIndicesUnmatchedPF	electronIndicesOtherPF; no dR<0.5 match in ak5JetPFCorrectedP4Pat
genIndicesStatus3t	pdgId in [-6, 6]; status in [3]
hcalLaserEvent2012	pass HCAL laser 2012 event filter
jsonWeight	run:ls in cert/Cert_190456-208686_8TeV_22Jan2013ReReco_Collisions12_JSON.txt
muonIdPog2012LoosePF	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Loose_Muon
muonIdPog2012TightPF	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Tight_Muon
muonIndicesNonIsoPF	pass ptMin & id; fail iso
muonIndicesOtherPF	pass ptMin; fail id
muonIndicesPF	IdPog2012Tight; pt>10.0 GeV; PfIsolationR04DeltaBCorrected<0.12
photonIndicesOtherPat	pass ptMin; fail id/iso
photonIndicesPat	pT>=25.0 GeV; photonSimpleCutBased2012TightPat
photonIndicesUnmatchedPat	photonIndicesOtherPat; no dR<0.5 match in ak5JetPFCorrectedP4Pat
vertexID	!fake; nd>=5.0; |z|<=24.0 cm; d0<=2.0 cm
vertexIndices	; pass ID
vertexIndicesOther	pass sumPtMin; fail ID
weight	1.bTagWeight.puWeight
weight	1.bTagWeight.puWeight.topPtWeight
weight	1.bTagWeight.puWeight.xsWeight
weight	1.jsonWeight
xcak5JetCorrectedP4Pat	muonPFDR<0.50; electronPFDR<0.50; photonPatDR<0.50
xcak5JetIndicesOtherPat	pass ptMin; fail jetID or etaMax
xcak5JetIndicesPat	pT>=50.0 GeV; |eta|<3.0; JetIDtight
xcak5JetPFCorrectedP4Pat	muonPFDR<0.50; electronPFDR<0.50; photonPatDR<0.50
xcak5JetPFDeadEcalDRlowPtPat	xcak5JetPFPat; nXtal>=10; cracks checked
xcak5JetPFIndicesBtagged2Pat	(>0.679)
xcak5JetPFIndicesOtherPat	pass ptMin; fail jetID or etaMax
xcak5JetPFIndicesPat	pT>=50.0 GeV; |eta|<3.0; JetIDloose
xcak5JetPFIndiceshighPtPat	pT>=50.0 GeV; |eta|<3.0; JetIDloose
xcak5JetPFIndiceslowPtPat	pT>=30.0 GeV; |eta|<3.0; JetIDloose

Calculables	(imperfect)	absent	calc	leaf	sltr
	NONE				

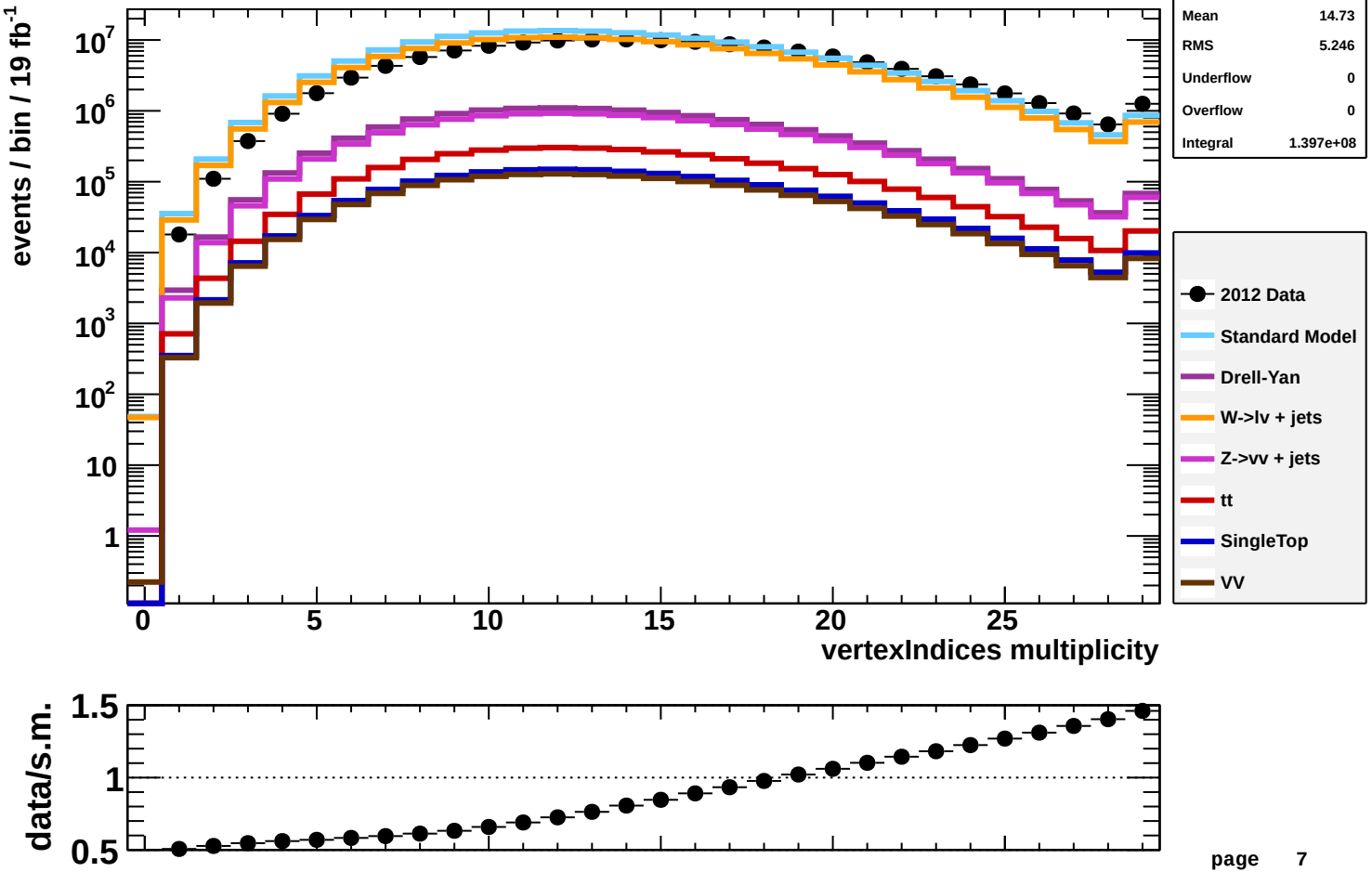
| a: master master

a:	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
a:	161925770	2.0927(5)e+8	1.9454(7)e+7	1.6796(5)e+8	1.2574(2)e+7	5.025(1)e+6	2.2973(9)e+6	1.9582(4)e+6	0.7738(2)


genPartonHT
Entries 1.828541e+08
Mean 66.12
RMS 77.91
Underflow 0
Overflow 0
Integral 2.093e+08
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
parton HT (GeV)
1
10
10^2
10^3
10^4
10^5
10^6
10^7
0
100
200
300
400
500
600
700
800
900
1000

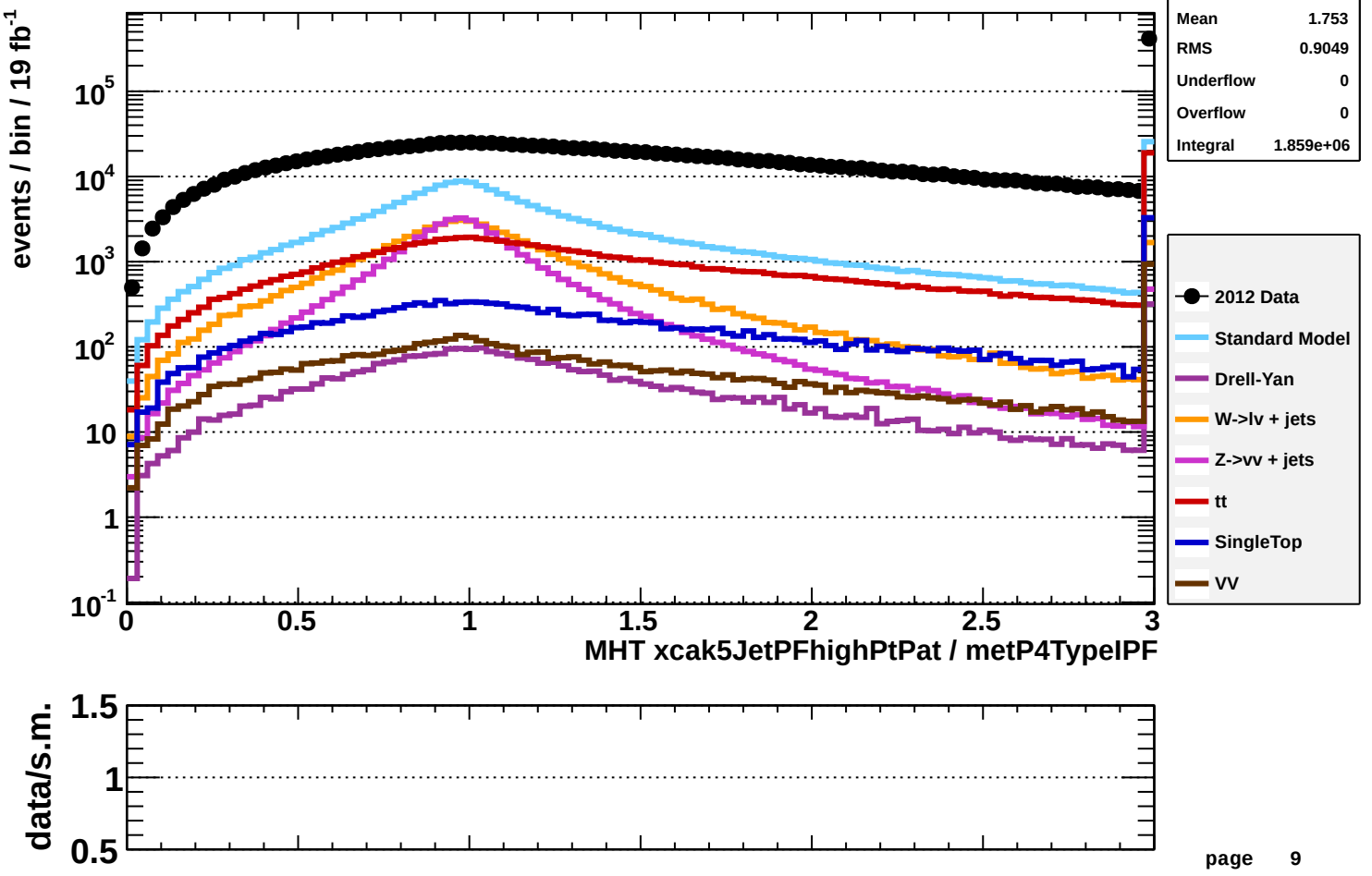
a:	master	master
b:	monster	<=10 tracks or >0.25 good fraction
c:	hbheNoise	hbheNoise
d:	value	beamHaloCSCTightHaloId<=0.00
e:	value	1.00<=trackingFailureFilterFlag
f:	value	1.00<=hcalLaserEventFilterFlag
g:	value	1.00<=ecalDeadCellTPFilterFlag
h:	value	1.00<=eeBadScFilterFlag
i:	value	1.00<=inconsistentMuonPFCandidateFilterFlag
j:	value	1.00<=greedyMuonPFCandidateFilterFlag
k:	multiplicity	0 <= singleIsolatedTrack <= 0

	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
a:	161925770	2.0927(5)e+8	1.9454(7)e+7	1.6796(5)e+8	1.2574(2)e+7	5.025(1)e+6	2.2973(9)e+6	1.9582(4)e+6	0.7738(2)
b:	161924972	2.0927(5)e+8	1.9454(7)e+7	1.6796(5)e+8	1.2574(2)e+7	5.025(1)e+6	2.2973(9)e+6	1.9582(4)e+6	0.7738(2)
c:	160439157	-	-	-	-	-	-	-	
d:	159670356	2.0924(5)e+8	1.9451(7)e+7	1.6794(5)e+8	1.2573(2)e+7	5.024(1)e+6	2.2969(9)e+6	1.9580(4)e+6	0.7631(2)
e:	159667829	2.0924(5)e+8	1.9451(7)e+7	1.6793(5)e+8	1.2573(2)e+7	5.024(1)e+6	2.2969(9)e+6	1.9580(4)e+6	0.7631(2)
f:	159667108	-	-	-	-	-	-	-	
g:	159142618	2.0922(5)e+8	1.9448(7)e+7	1.6792(5)e+8	1.2572(2)e+7	5.022(1)e+6	2.2964(9)e+6	1.9577(4)e+6	0.7607(2)
h:	159142615	2.0922(5)e+8	1.9448(7)e+7	1.6792(5)e+8	1.2572(2)e+7	5.022(1)e+6	2.2964(9)e+6	1.9577(4)e+6	0.7607(2)
i:	159111052	2.0917(5)e+8	1.9434(7)e+7	1.6789(5)e+8	1.2572(2)e+7	5.018(1)e+6	2.2958(9)e+6	1.9569(4)e+6	0.7607(2)
j:	159107069	2.0914(5)e+8	1.9430(7)e+7	1.6787(5)e+8	1.2572(2)e+7	5.018(1)e+6	2.2957(9)e+6	1.9567(4)e+6	0.7608(2)
k:	139728253	1.7269(4)e+8	1.3957(6)e+7	1.3952(4)e+8	1.1794(2)e+7	3.8662(9)e+6	1.9095(9)e+6	1.6417(4)e+6	0.8092(2)


vertexIndicesMultiplicity
Entries 1.397283e+08
Mean 14.73
RMS 5.246
Underflow 0
Overflow 0
Integral 1.397e+08
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
vertexIndices multiplicity
data/s.m.

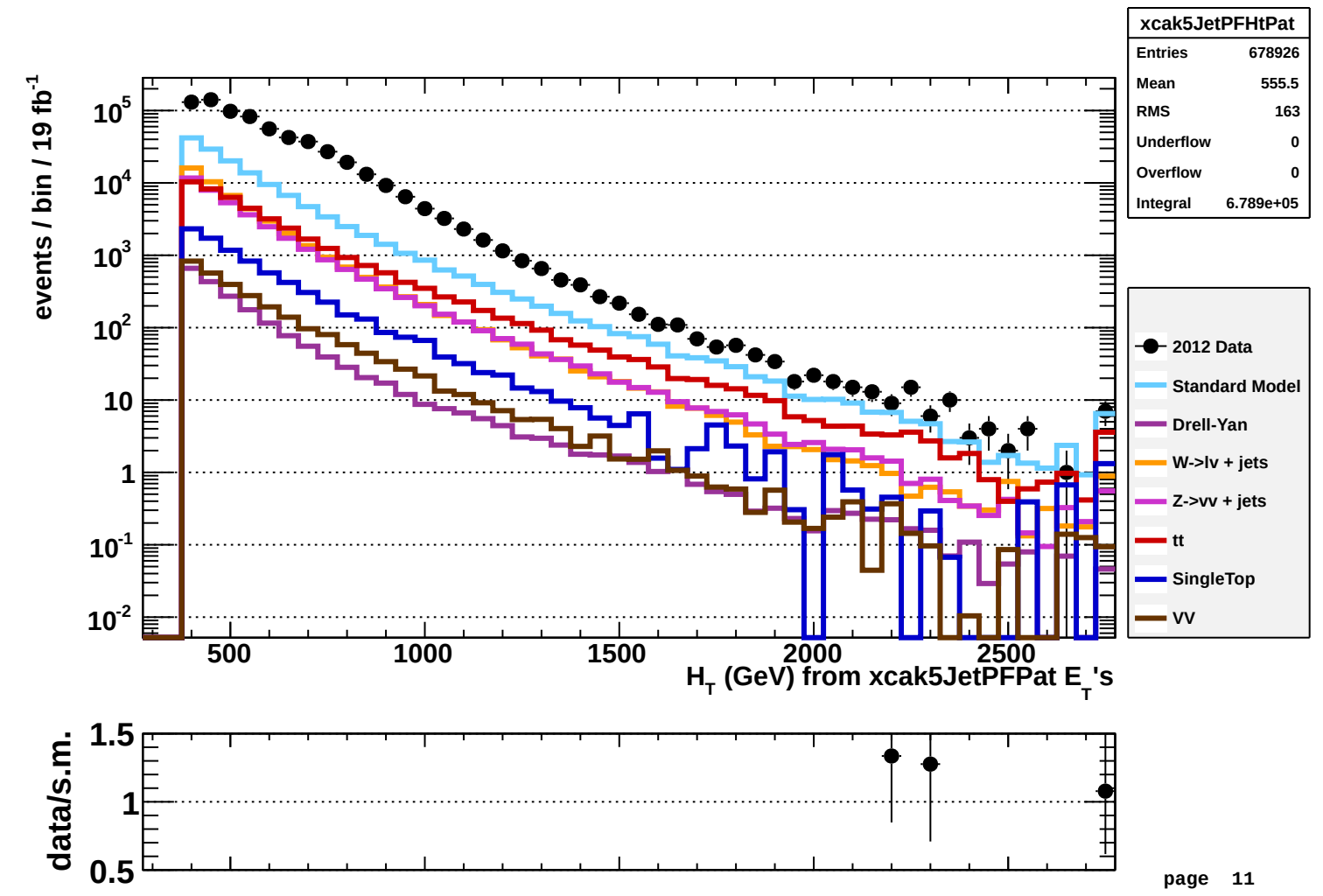
l:	multiplicity	1 <= vertexIndices
m:	l1Filter	L1Tech_BPTX_plus_AND_minus.v0
n:	physicsDeclaredFilter	physicsDeclaredFilter
o:	HTxTriggerMap	HTxTriggerMap
p:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetPFSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
u:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPF <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500

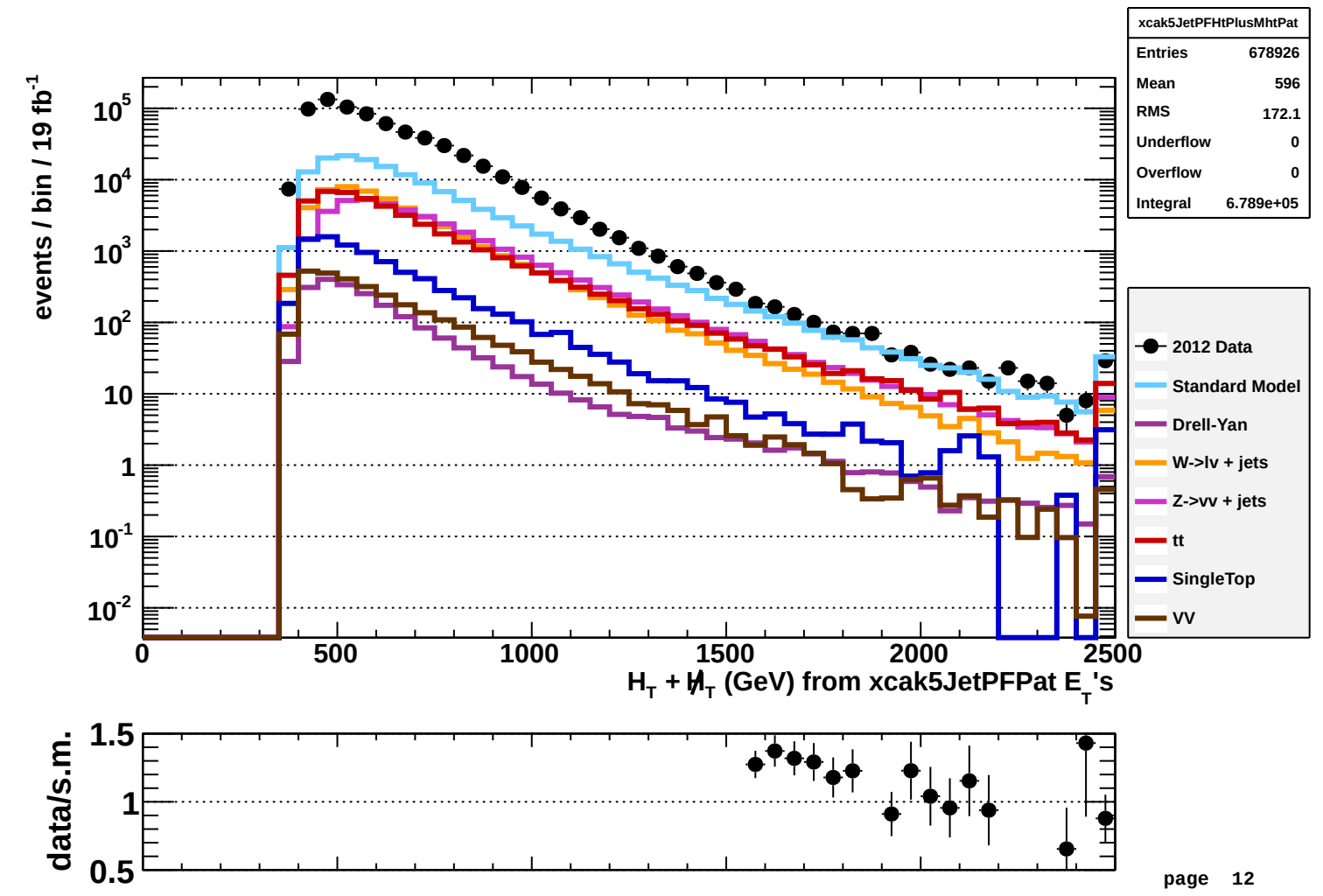
	2012 Data Standard Mod	Drell-Yan W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
l:	139728253 1.7269(4)e+8	1.3957(6)e+7	1.3952(4)e+8	1.1794(2)e+7	3.8662(9)e+6	1.9095(9)e+6	1.6417(4)e+6	0.8092(2)
m:	139728065 -	-	-	-	-	-	-	
n:	139600741 -	-	-	-	-	-	-	
o:	13870537 -	-	-	-	-	-	-	
p:	13456243 4.664(2)e+7	3.443(3)e+6	3.100(2)e+7	6.113(1)e+6	3.6695(9)e+6	1.5261(8)e+6	8.844(3)e+5	0.2885(1)
q:	13299744 1.0522(5)e+7	6.501(10)e+5	5.802(5)e+6	1.4714(6)e+6	1.9470(6)e+6	4.665(4)e+5	1.846(1)e+5	1.2640(7)
r:	11661811 2.3977(9)e+6	1.139(2)e+5	9.628(7)e+5	2.281(1)e+5	8.545(4)e+5	1.807(3)e+5	5.775(8)e+4	4.864(2)
s:	10367684 1.1536(5)e+6	4.254(5)e+4	3.506(3)e+5	8.863(6)e+4	5.579(3)e+5	8.82(2)e+4	2.574(5)e+4	8.987(5)
t:	10363080 1.1516(5)e+6	4.246(5)e+4	3.503(3)e+5	8.862(6)e+4	5.564(3)e+5	8.81(2)e+4	2.572(5)e+4	8.999(5)
u:	10348024 1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
v:	10348024 1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
w:	9836240 1.1139(5)e+6	4.069(5)e+4	3.413(3)e+5	8.741(5)e+4	5.345(3)e+5	8.48(2)e+4	2.517(5)e+4	8.831(5)
x:	9811777 9.505(4)e+5	2.563(4)e+4	2.522(2)e+5	8.739(5)e+4	4.816(3)e+5	7.96(2)e+4	2.410(5)e+4	10.323(6)
y:	9779118 9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783 7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104 7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474 7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922 2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)

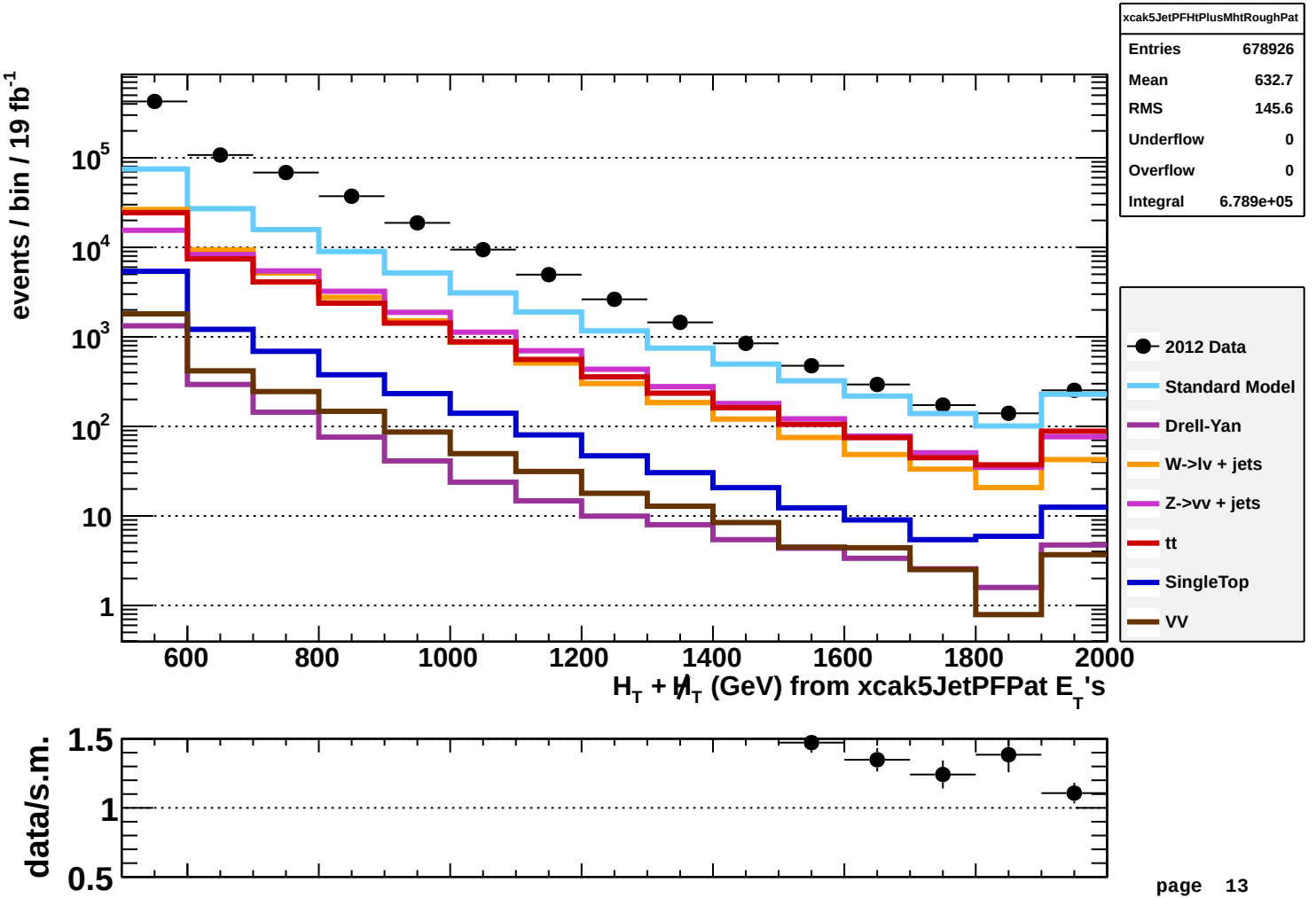

xcak5JetPFMhthighPtPatOvermetP4TypeIPF
Entries 1858922
Mean 1.753
RMS 0.9049
Underflow 0
Overflow 0
Integral 1.859e+06
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT xcak5JetPFhighPtPat / metP4TypeIPF
data/s.m.

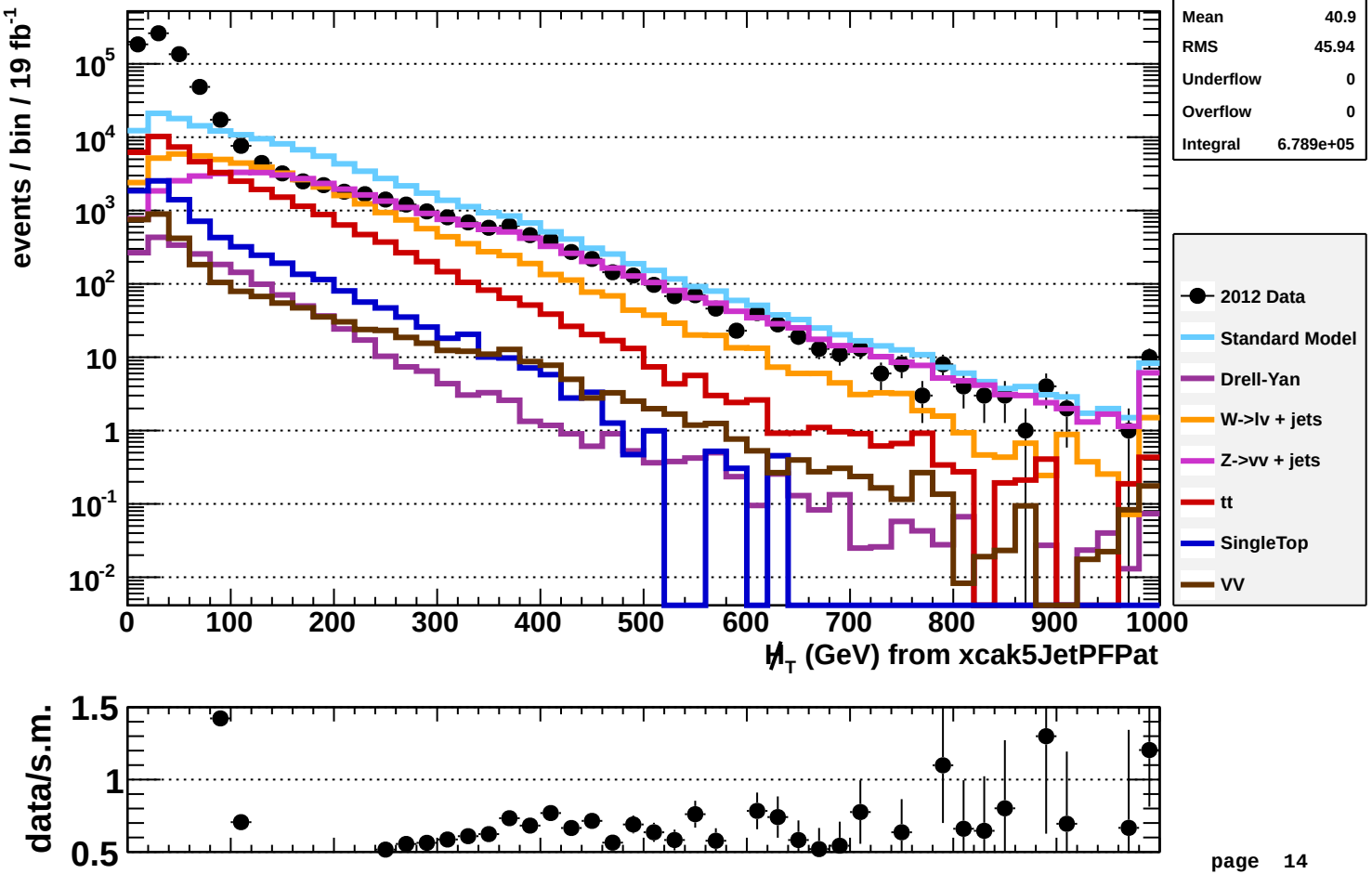
m:	l1Filter	L1Tech_BPTX_plus_AND_minus.v0
n:	physicsDeclaredFilter	physicsDeclaredFilter
o:	HTxTriggerMap	HTxTriggerMap
p:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetPFSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
u:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPF <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
\| D: | value | xcak5JetPFMhthighPtPatOvermetP4TypeIPF<=1.25 |

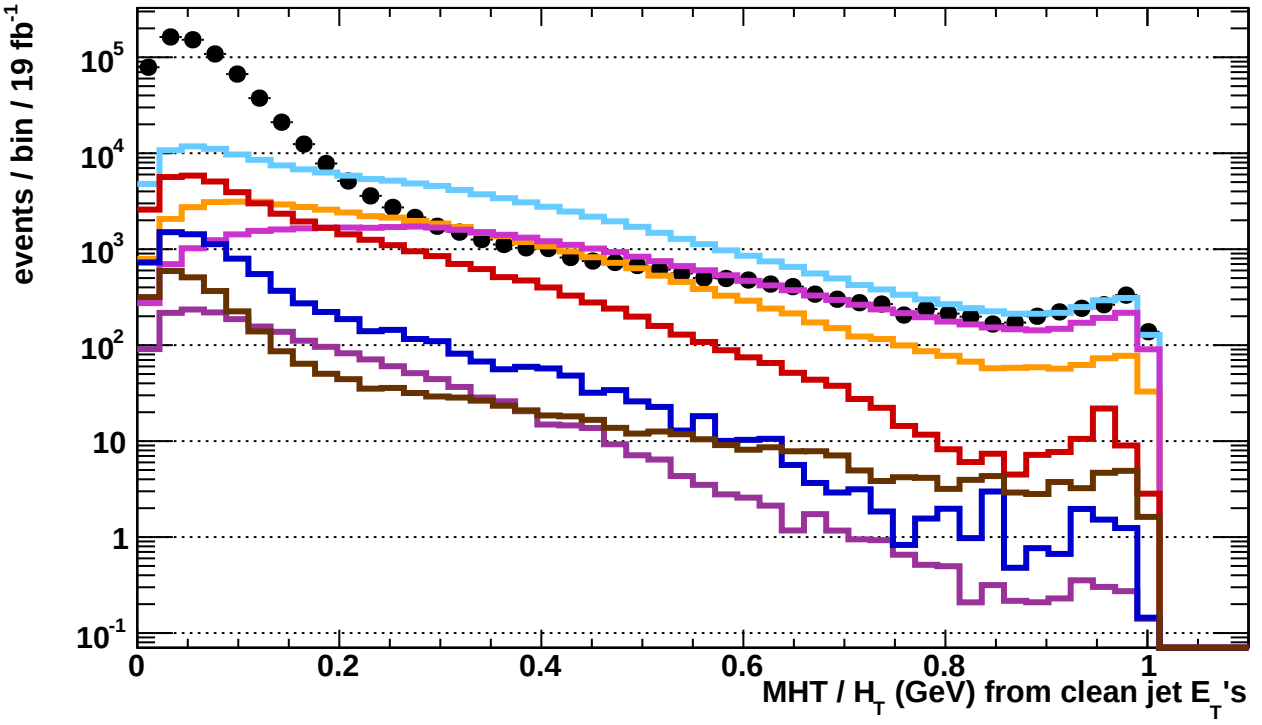
	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
m:	139728065	-	-	-	-	-	-	-	
n:	139600741	-	-	-	-	-	-	-	
o:	13870537	-	-	-	-	-	-	-	
p:	13456243	4.664(2)e+7	3.443(3)e+6	3.100(2)e+7	6.113(1)e+6	3.6695(9)e+6	1.5261(8)e+6	8.844(3)e+5	0.2885(1)
q:	13299744	1.0522(5)e+7	6.501(10)e+5	5.802(5)e+6	1.4714(6)e+6	1.9470(6)e+6	4.665(4)e+5	1.846(1)e+5	1.2640(7)
r:	11661811	2.3977(9)e+6	1.139(2)e+5	9.628(7)e+5	2.281(1)e+5	8.545(4)e+5	1.807(3)e+5	5.775(8)e+4	4.864(2)
s:	10367684	1.1536(5)e+6	4.254(5)e+4	3.506(3)e+5	8.863(6)e+4	5.579(3)e+5	8.82(2)e+4	2.574(5)e+4	8.987(5)
t:	10363080	1.1516(5)e+6	4.246(5)e+4	3.503(3)e+5	8.862(6)e+4	5.564(3)e+5	8.81(2)e+4	2.572(5)e+4	8.999(5)
u:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
v:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
w:	9836240	1.1139(5)e+6	4.069(5)e+4	3.413(3)e+5	8.741(5)e+4	5.345(3)e+5	8.48(2)e+4	2.517(5)e+4	8.831(5)
x:	9811777	9.505(4)e+5	2.563(4)e+4	2.522(2)e+5	8.739(5)e+4	4.816(3)e+5	7.96(2)e+4	2.410(5)e+4	10.323(6)
y:	9779118	9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783	7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104	7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474	7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922	2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)
\| D: | 678926 | 1.404(1)e+5 | 1.96(1)e+3 | 4.752(9)e+4 | 3.748(4)e+4 | 4.228(9)e+4 | 8.28(6)e+3 | 2.84(2)e+3 | 4.837(8) |


xcak5JetPFHtPat
Entries 678926
Mean 555.5
RMS 163
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.


xcak5JetPFHtPlusMhtPat
Entries 678926
Mean 596
RMS 172.1
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M/_T (GeV) from xcak5JetPFPat E_T's
data/s.m.

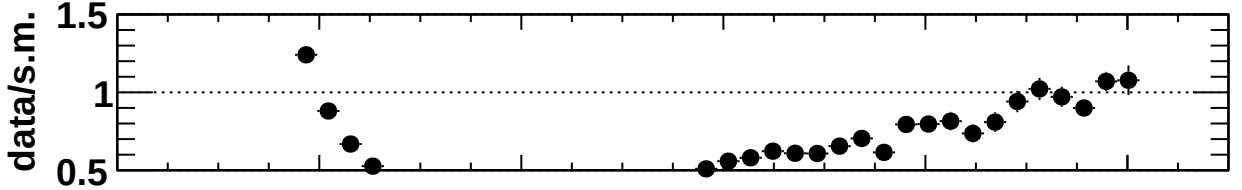

xcak5JetPFHtPlusMhtRoughPat
Entries 678926
Mean 632.7
RMS 145.6
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M̸_T (GeV) from xcak5JetPFPat E_T's
data/s.m.

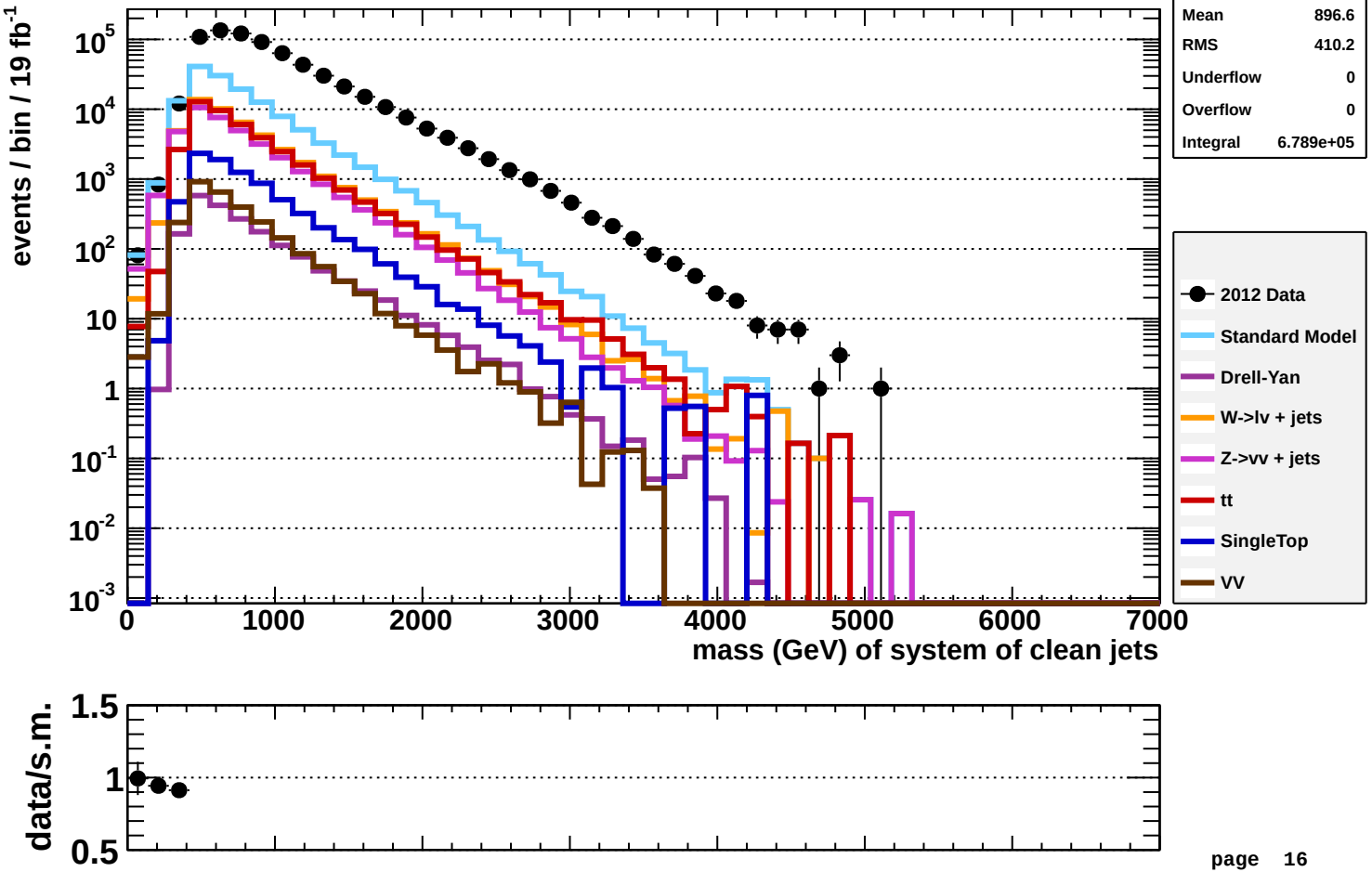

xcak5JetPFMhtPat
Entries 678926
Mean 40.9
RMS 45.94
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat
data/s.m.



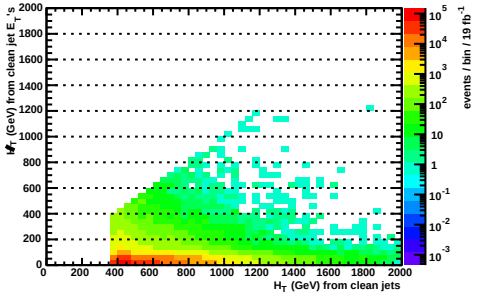
xcak5JetPFmHtOverHtPat	
Entries	678926
Mean	0.07797
RMS	0.08981
Underflow	0
Overflow	0
Integral	6.789e+05

- 2012 Data
- Standard Model
- Drell-Yan
- W->lv + jets
- Z->vv + jets
- tt
- SingleTop
- VV

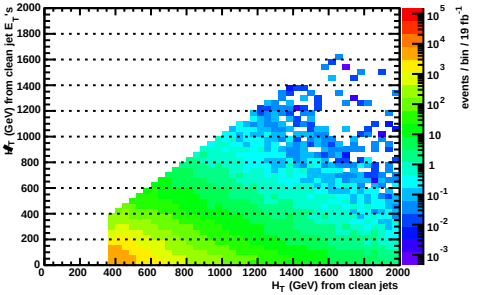



xcak5JetPFmPat
Entries 678926
Mean 896.6
RMS 410.2
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
mass (GeV) of system of clean jets
data/s.m.

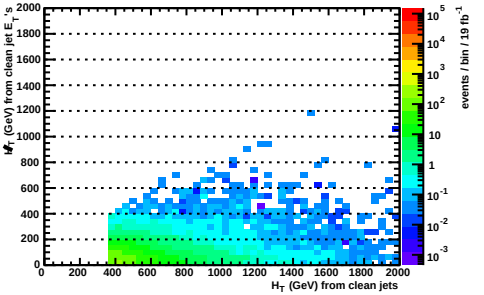
2012 Data



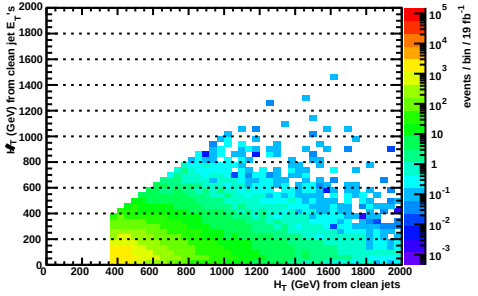
Standard Model



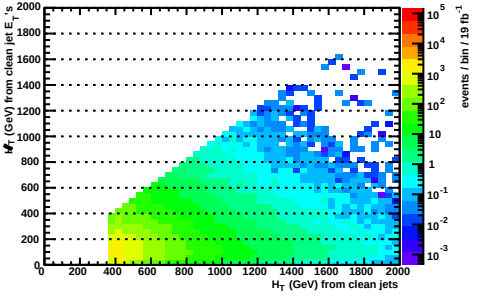
Drell-Yan



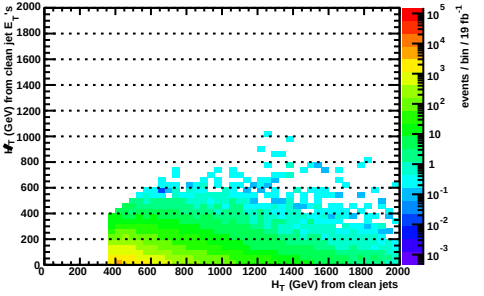
W->lv + jets



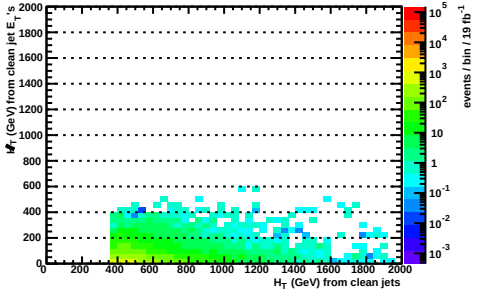
Z->vv + jets



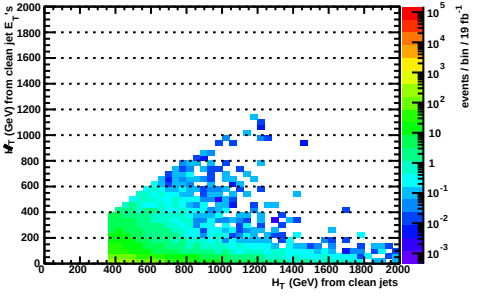
tt

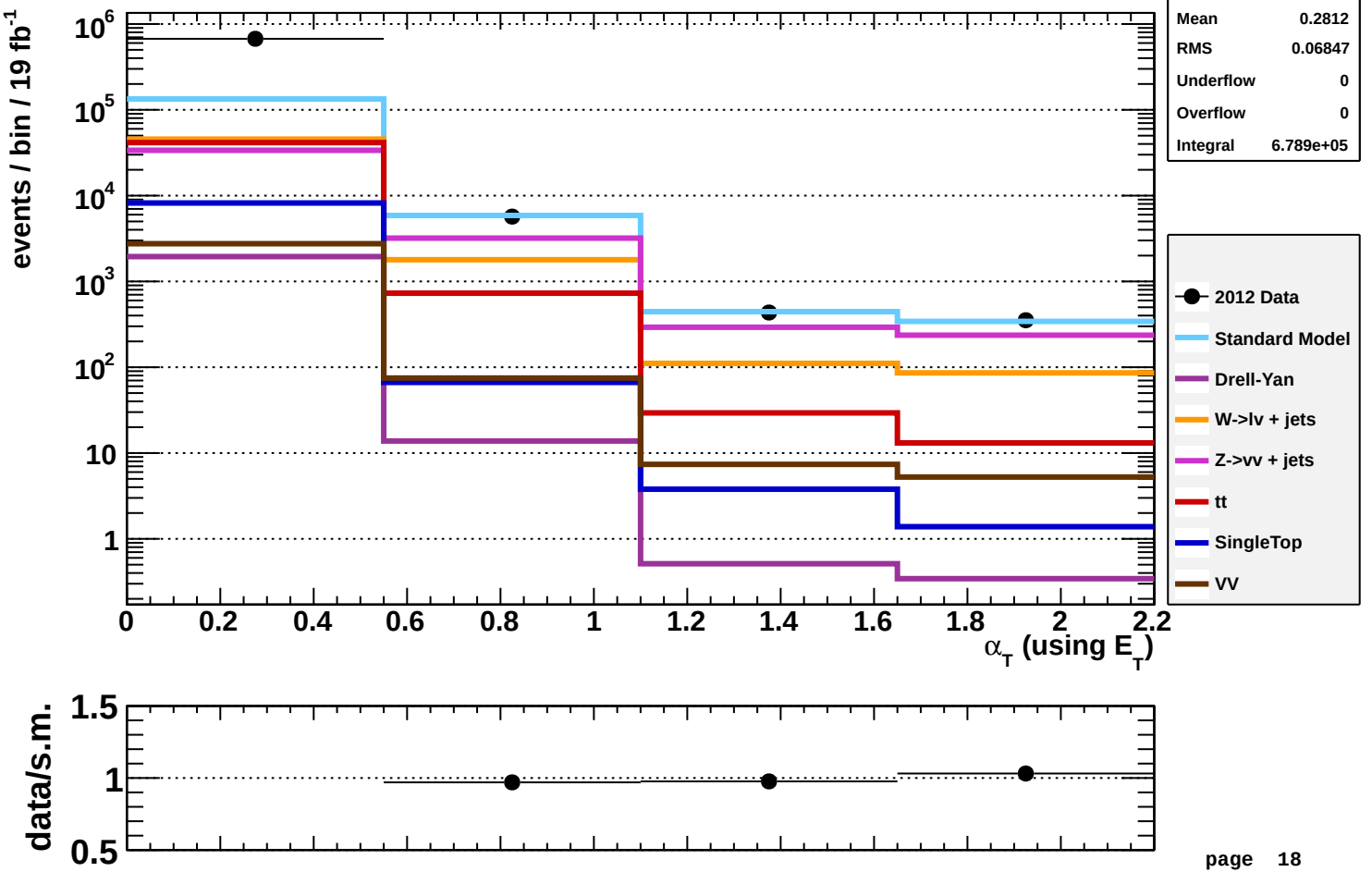


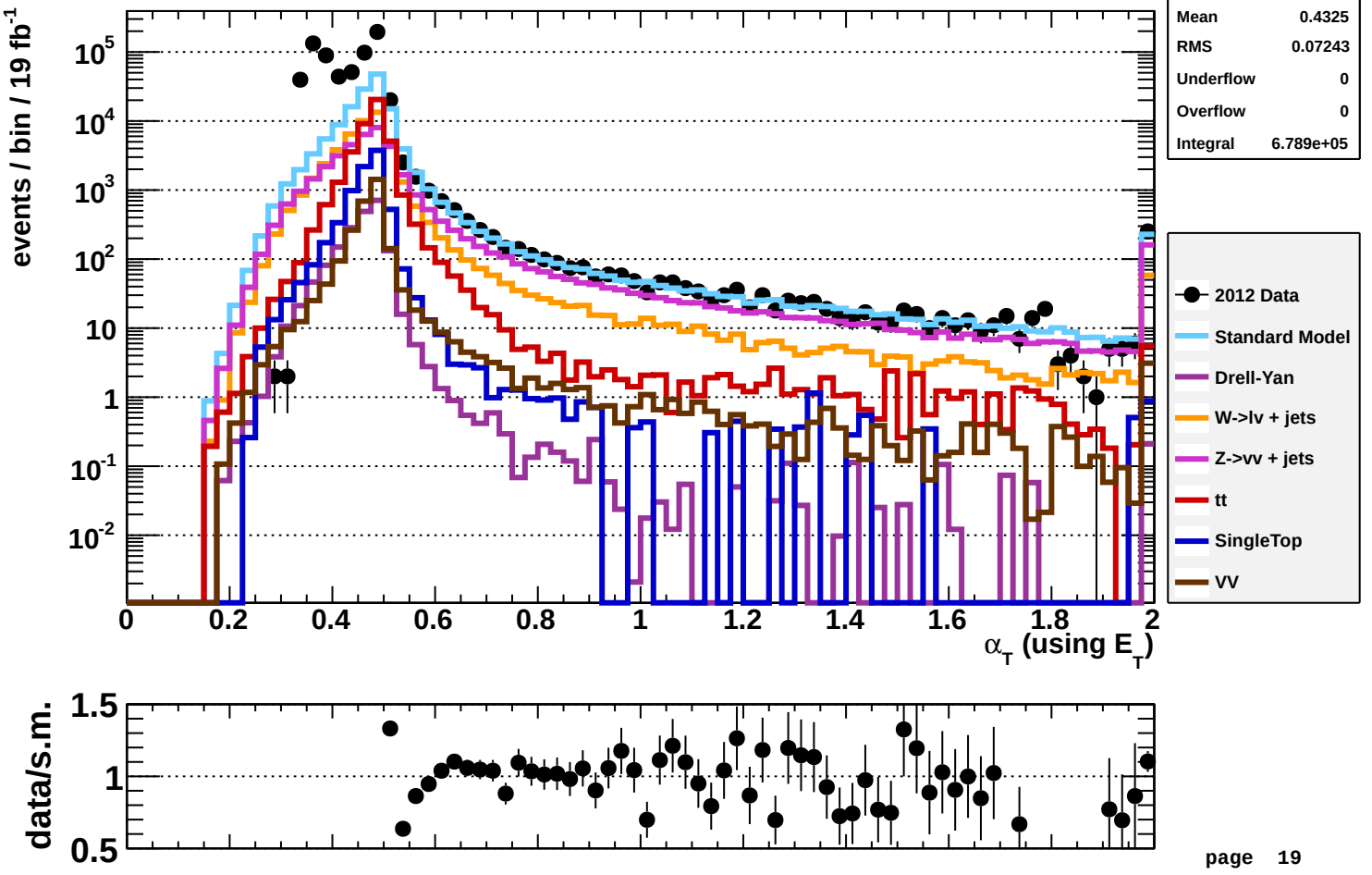
SingleTop

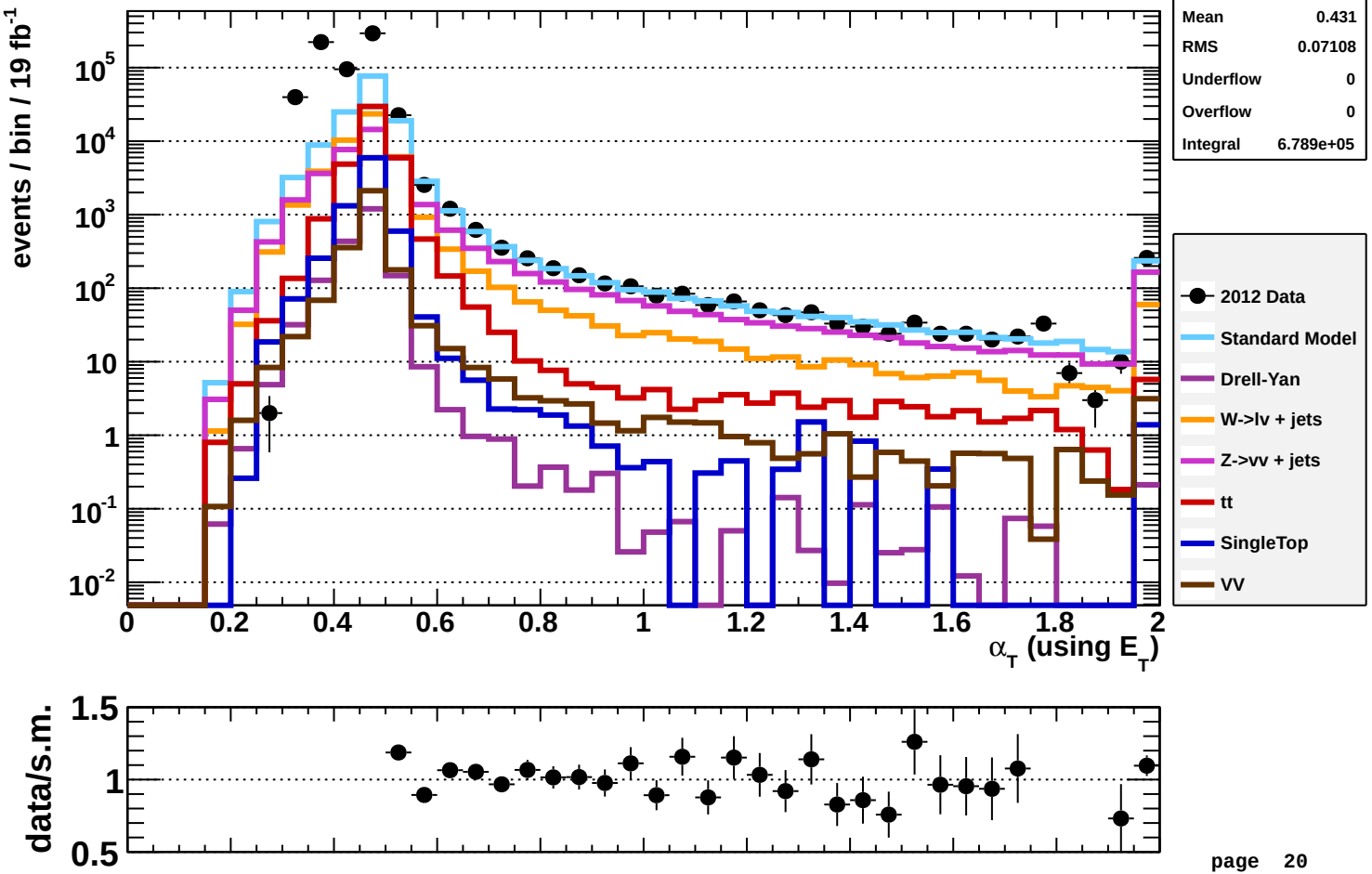


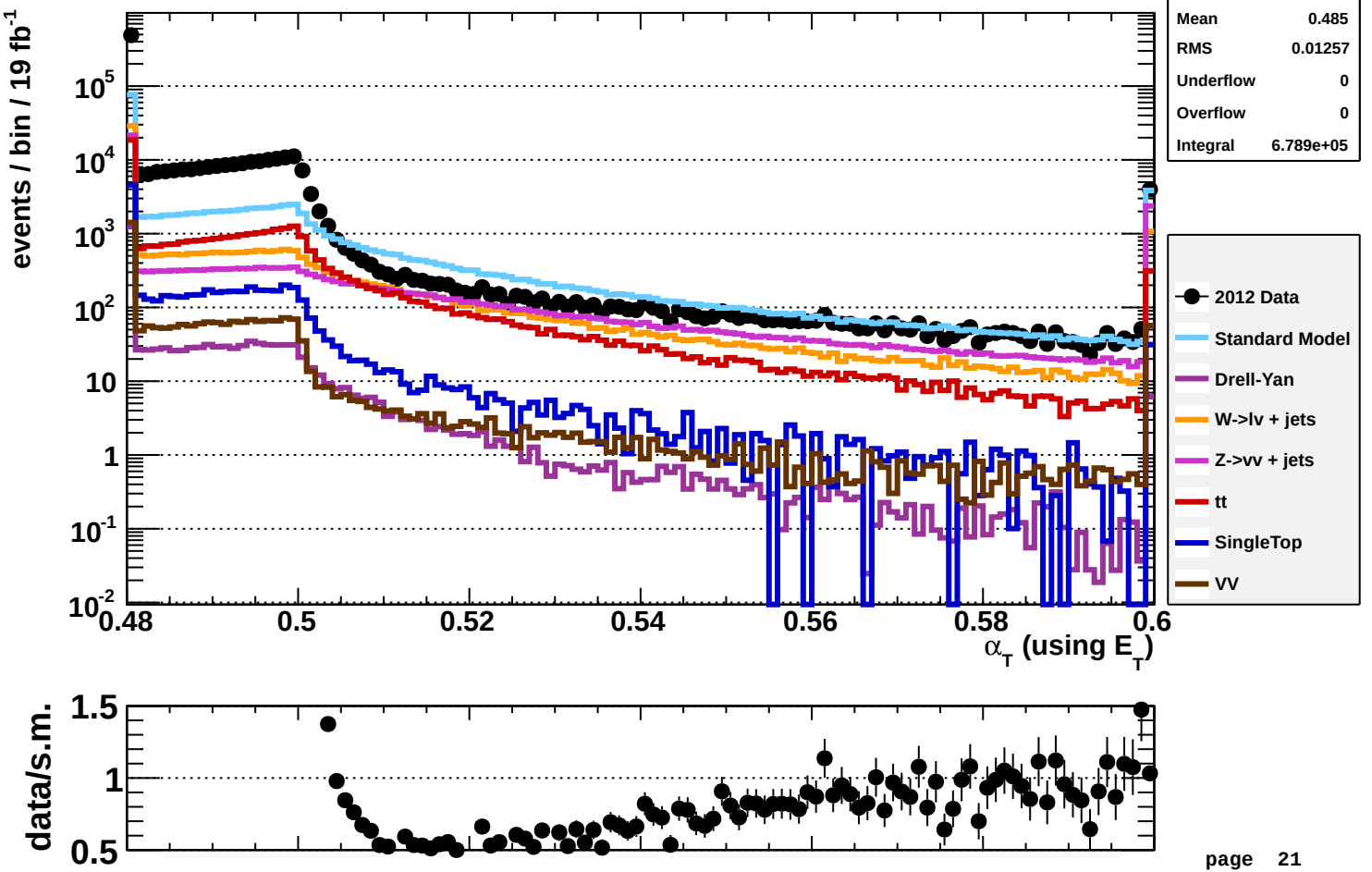
VV

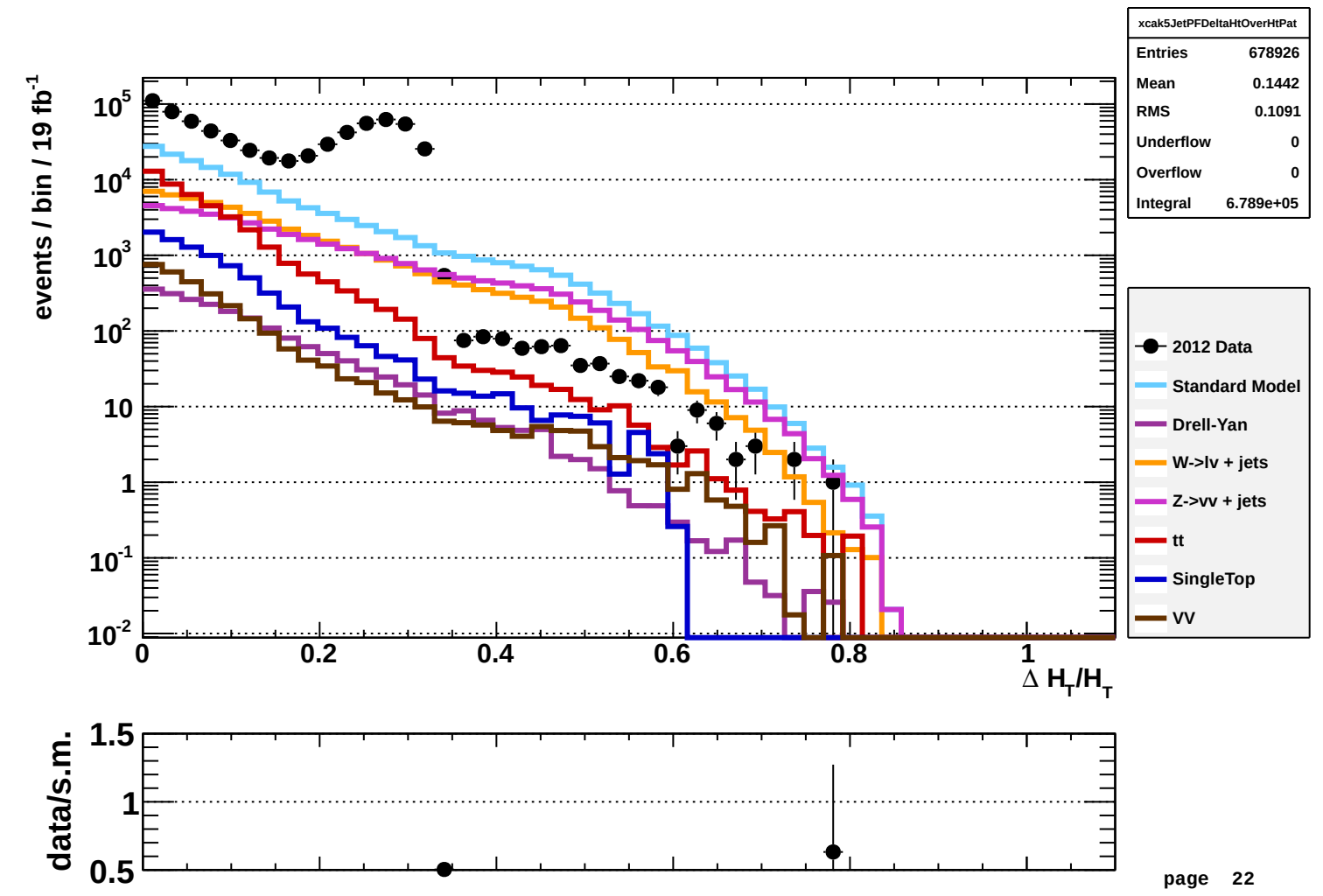


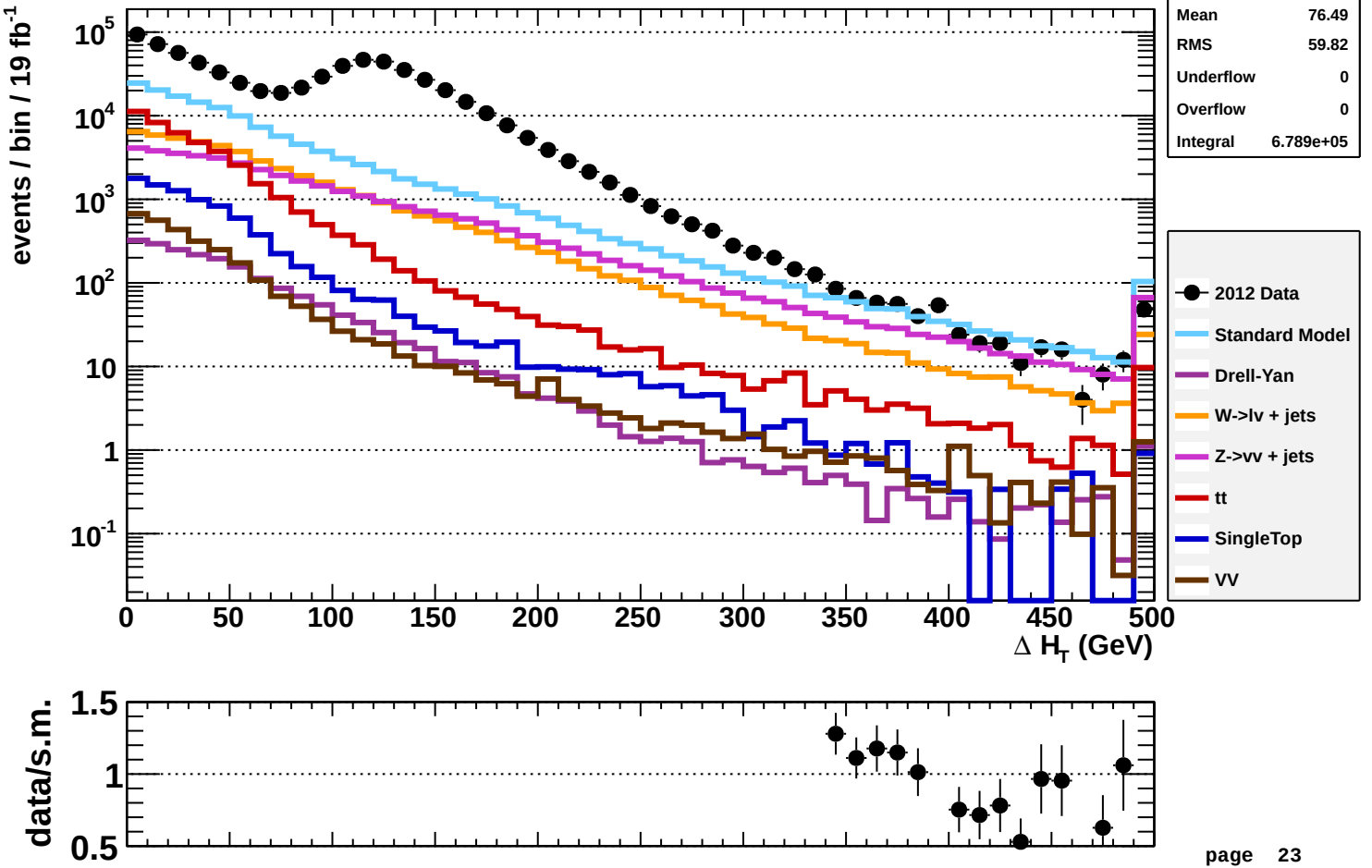

xcak5JetPFAlphaTFewBinsPat
Entries 678926
Mean 0.2812
RMS 0.06847
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetPFAlphaTPat
Entries 678926
Mean 0.4325
RMS 0.07243
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.

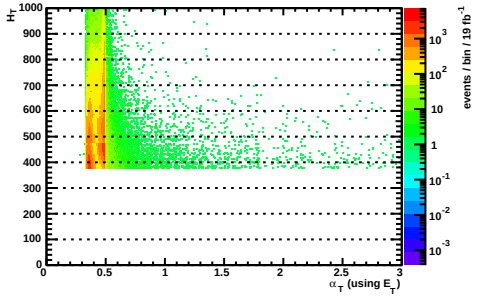

xcak5JetPFAlphaTRoughPat
Entries 678926
Mean 0.431
RMS 0.07108
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetPFAlphaTZoomPat
Entries 678926
Mean 0.485
RMS 0.01257
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.

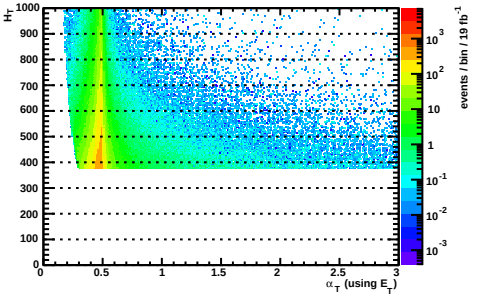

xcak5JetPFDeltaHtOverHtPat
Entries 678926
Mean 0.1442
RMS 0.1091
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT/HT
data/s.m.


xcak5JetPFDeltaHtPat
Entries 678926
Mean 76.49
RMS 59.82
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT (GeV)
data/s.m.

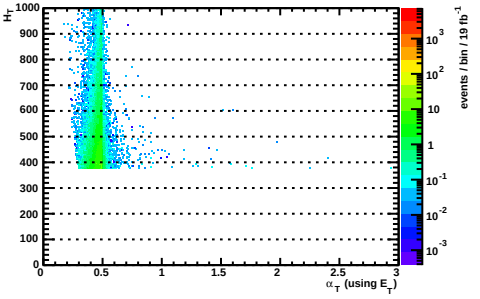
2012 Data



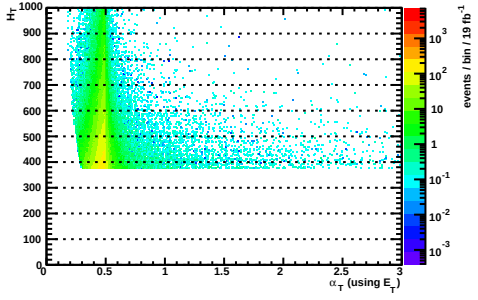
Standard Model



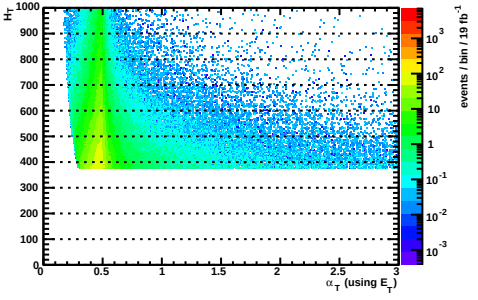
Drell-Yan



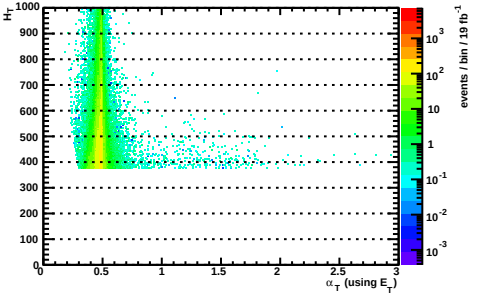
W->lv + jets



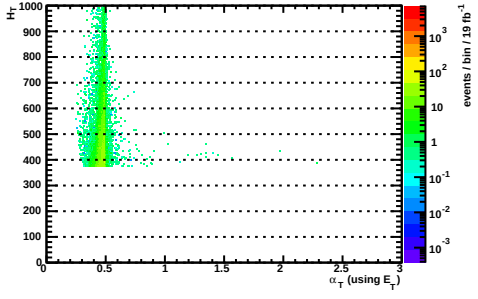
Z->vv + jets



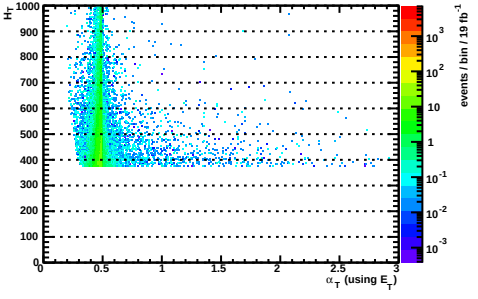
tt



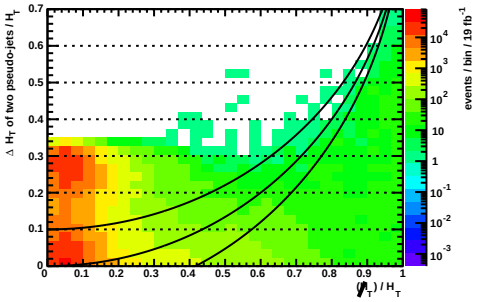
SingleTop



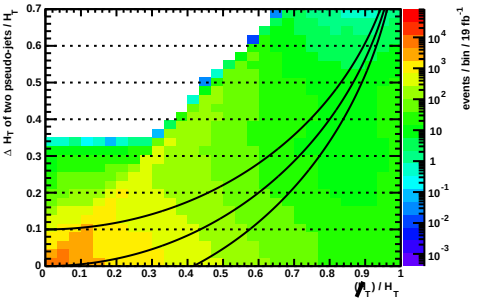
VV



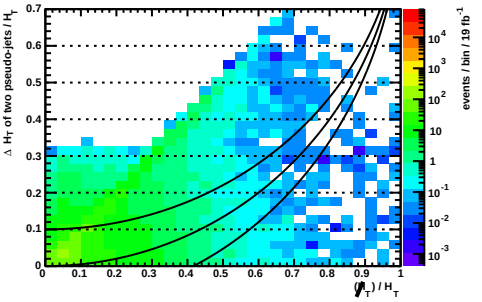
2012 Data



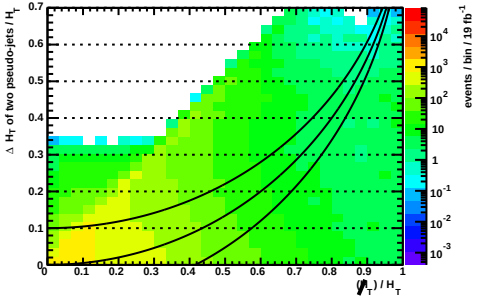
Standard Model



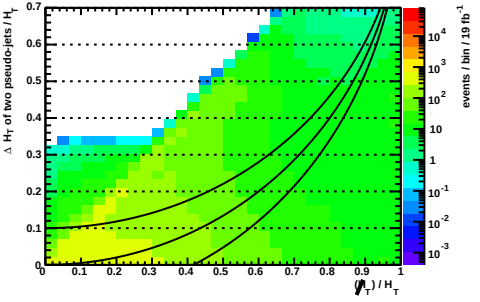
Drell-Yan



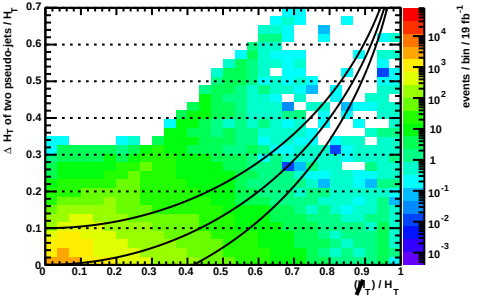
W->lv + jets



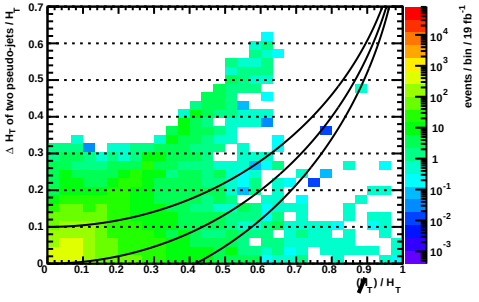
Z->vv + jets



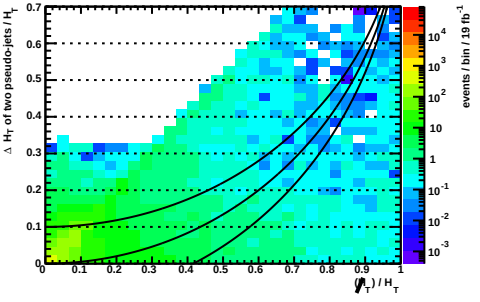
tt



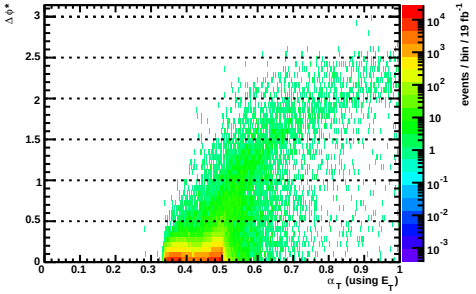
SingleTop



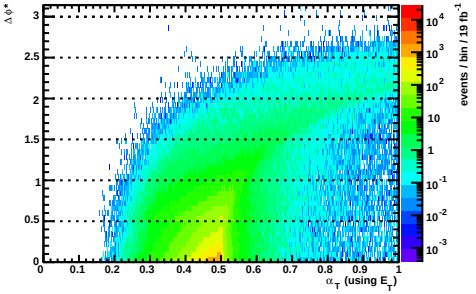
VV



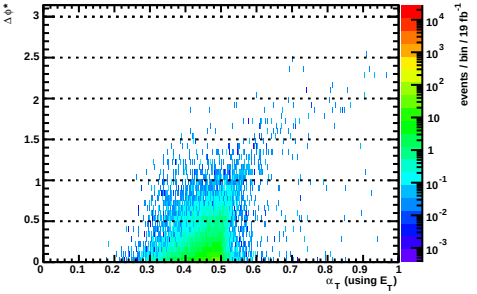
2012 Data



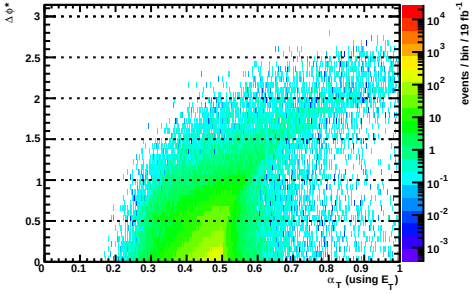
Standard Model



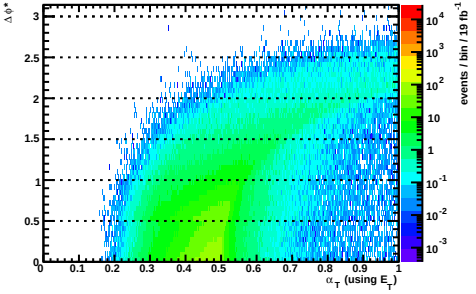
Drell-Yan



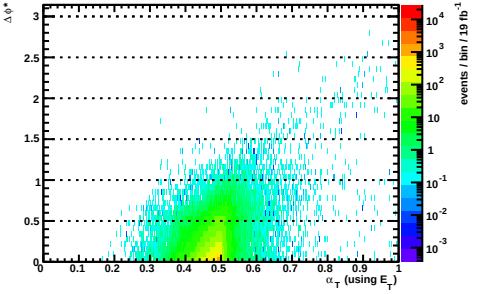
W->lv + jets



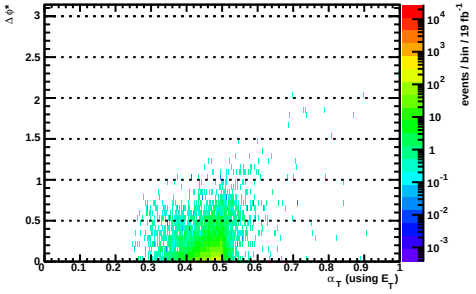
Z->vv + jets



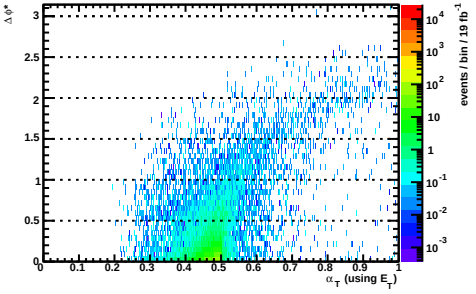
tt

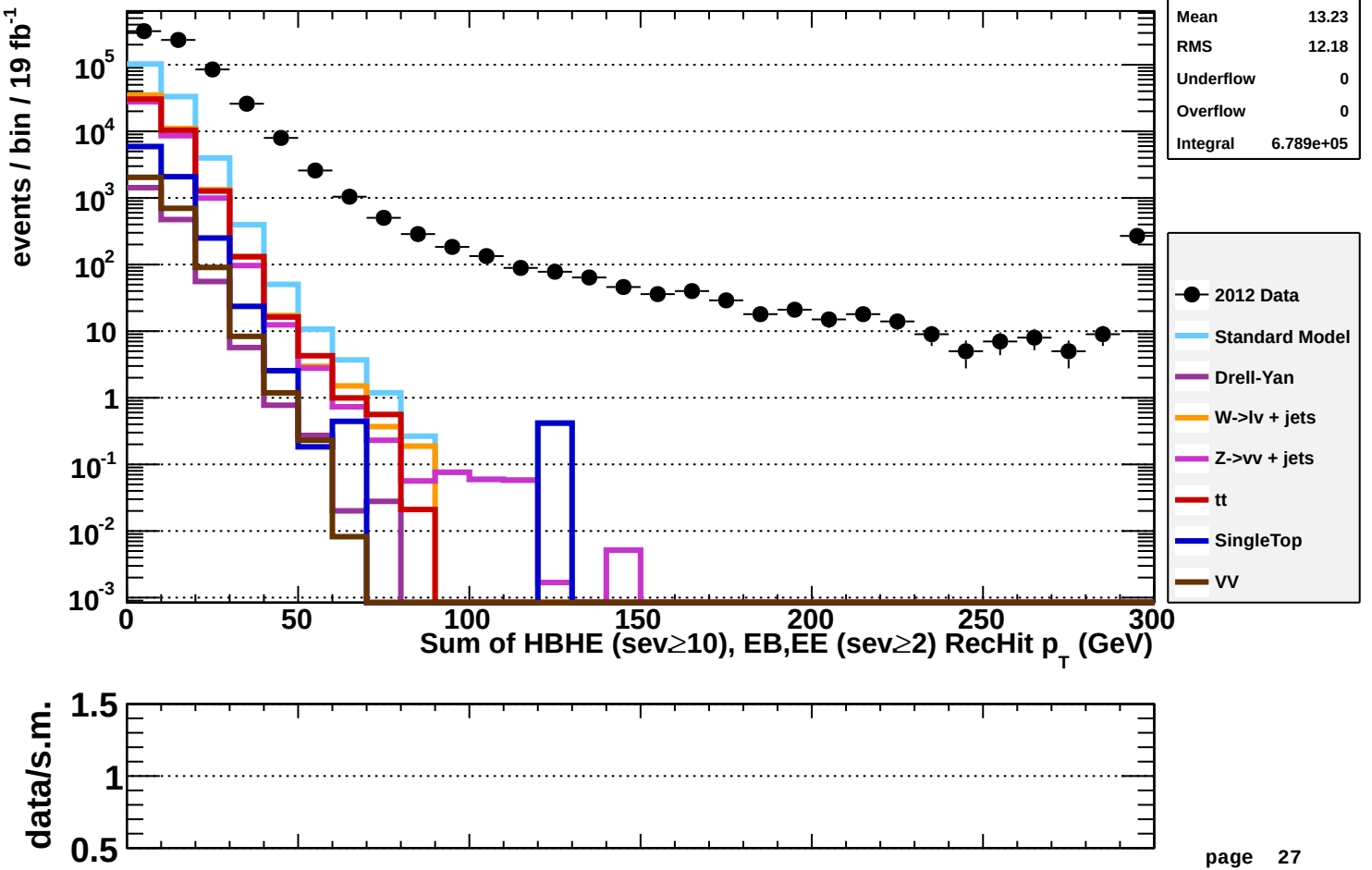


SingleTop



VV

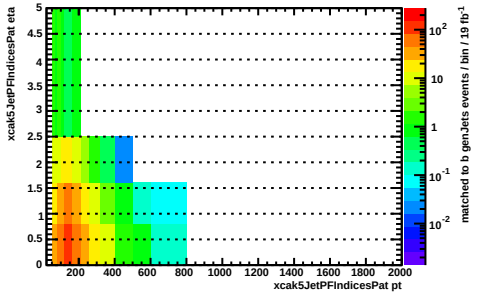



PFRecHitSumPt
Entries 678926
Mean 13.23
RMS 12.18
Underflow 0
Overflow 0
Integral 6.789e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Sum of HBHE (sev≥10), EB,EE (sev≥2) RecHit pT (GeV)
data/s.m.

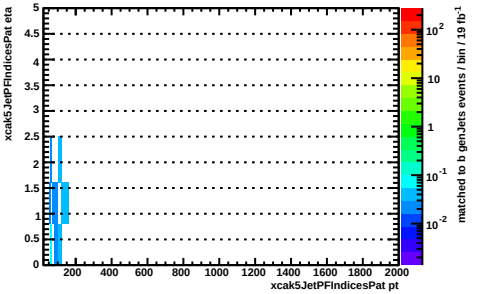
o:	HTxTriggerMap	HTxTriggerMap
p:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetPFSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
u:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPF <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	PFRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetPFAlphaTEtPat

	2012 Data Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
o:	13870537	-	-	-	-	-	-	
p:	13456243	4.664(2)e+7	3.443(3)e+6	3.100(2)e+7	6.113(1)e+6	3.6695(9)e+6	1.5261(8)e+6	8.844(3)e+5	0.2885(1)
q:	13299744	1.0522(5)e+7	6.501(10)e+5	5.802(5)e+6	1.4714(6)e+6	1.9470(6)e+6	4.665(4)e+5	1.846(1)e+5	1.2640(7)
r:	11661811	2.3977(9)e+6	1.139(2)e+5	9.628(7)e+5	2.281(1)e+5	8.545(4)e+5	1.807(3)e+5	5.775(8)e+4	4.864(2)
s:	10367684	1.1536(5)e+6	4.254(5)e+4	3.506(3)e+5	8.863(6)e+4	5.579(3)e+5	8.82(2)e+4	2.574(5)e+4	8.987(5)
t:	10363080	1.1516(5)e+6	4.246(5)e+4	3.503(3)e+5	8.862(6)e+4	5.564(3)e+5	8.81(2)e+4	2.572(5)e+4	8.999(5)
u:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
v:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
w:	9836240	1.1139(5)e+6	4.069(5)e+4	3.413(3)e+5	8.741(5)e+4	5.345(3)e+5	8.48(2)e+4	2.517(5)e+4	8.831(5)
x:	9811777	9.505(4)e+5	2.563(4)e+4	2.522(2)e+5	8.739(5)e+4	4.816(3)e+5	7.96(2)e+4	2.410(5)e+4	10.323(6)
y:	9779118	9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783	7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104	7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474	7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922	2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)
D:	678926	1.404(1)e+5	1.96(1)e+3	4.752(9)e+4	3.748(4)e+4	4.228(9)e+4	8.28(6)e+3	2.84(2)e+3	4.837(8)
E:	639480	1.399(1)e+5	1.96(1)e+3	4.737(9)e+4	3.737(4)e+4	4.213(9)e+4	8.25(6)e+3	2.83(2)e+3	4.571(8)
F:	6173	6.64(2)e+3	14.6(8)	1.98(2)e+3	3.71(1)e+3	7.7(1)e+2	72(6)	87(2)	0.93(1)

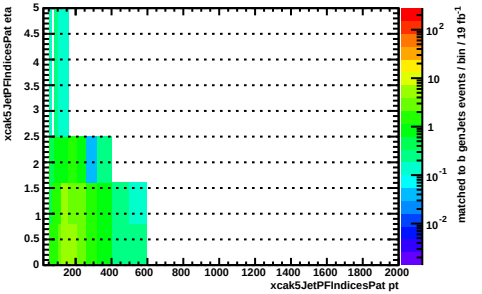
Standard Model



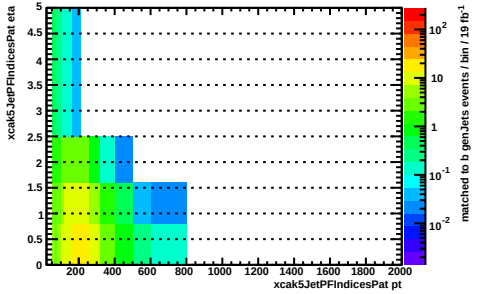
Drell-Yan



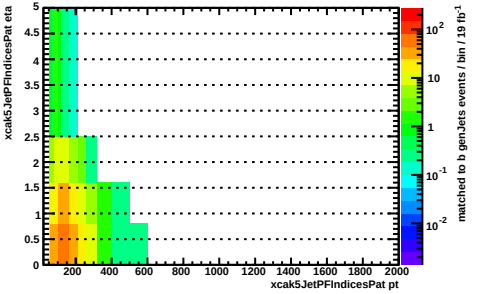
W->lv + jets



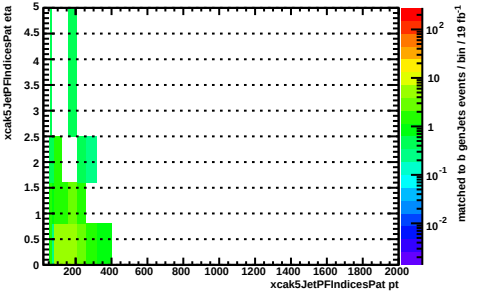
Z->vv + jets



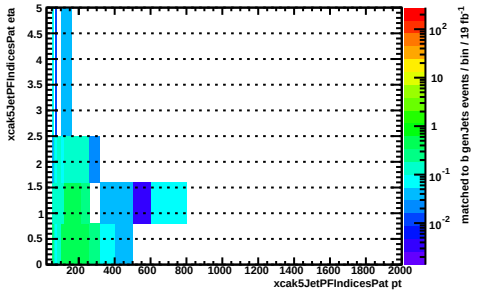
tt



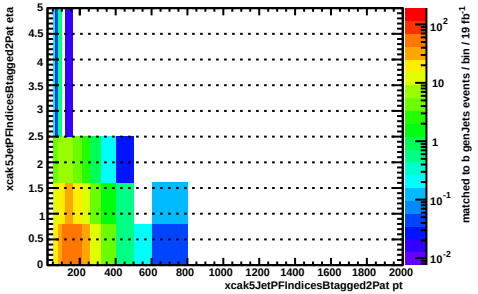
SingleTop



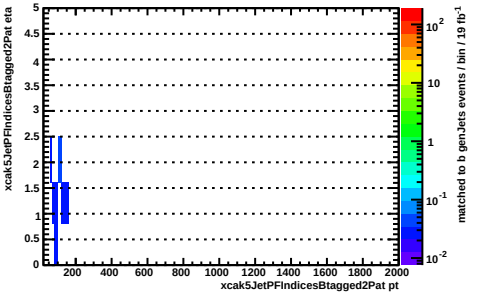
VV



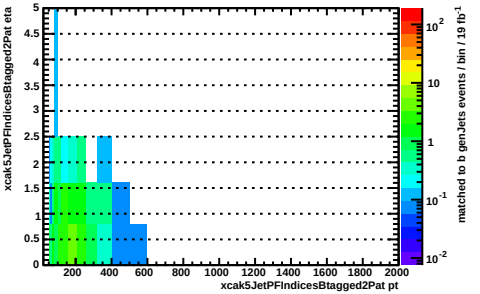
Standard Model



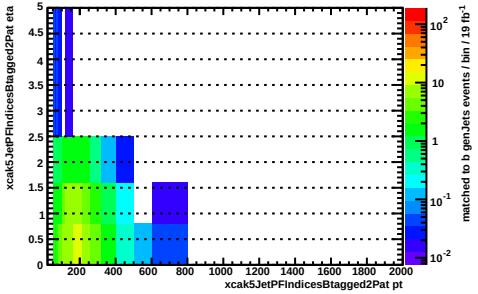
Drell-Yan



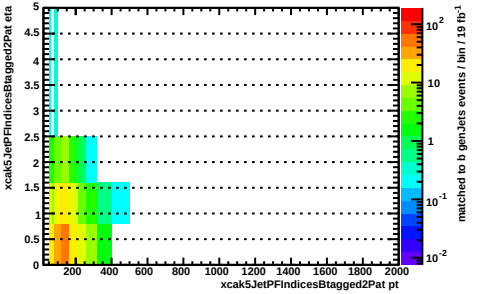
W->lv + jets



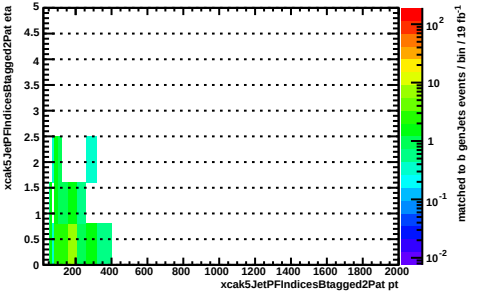
Z->vv + jets



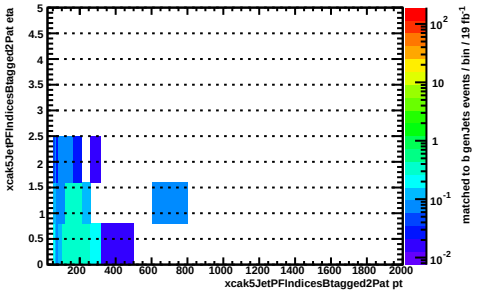
tt



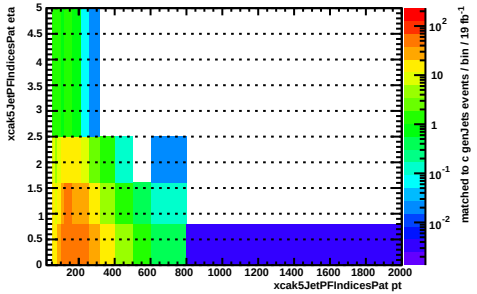
SingleTop



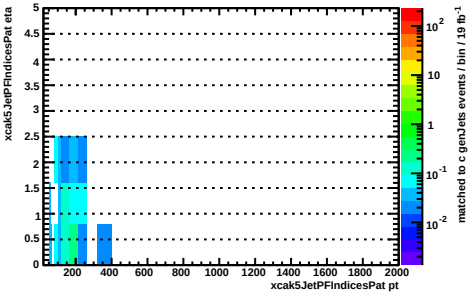
VV



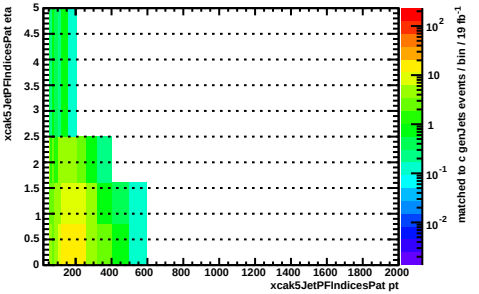
Standard Model



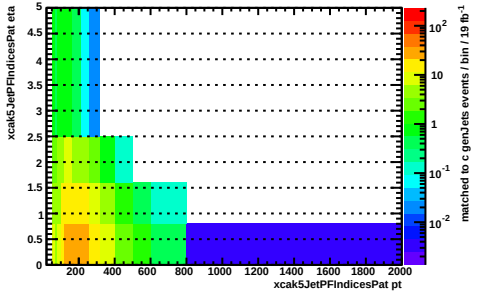
Drell-Yan



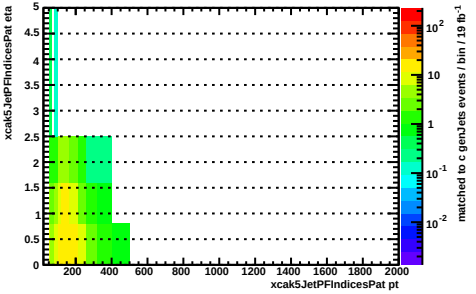
W->lv + jets



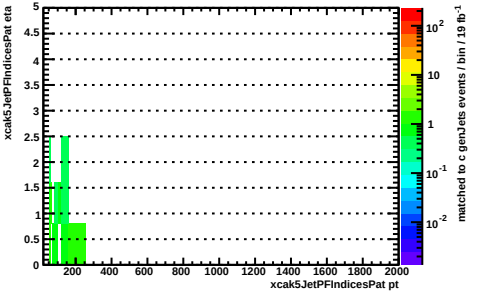
Z->vv + jets



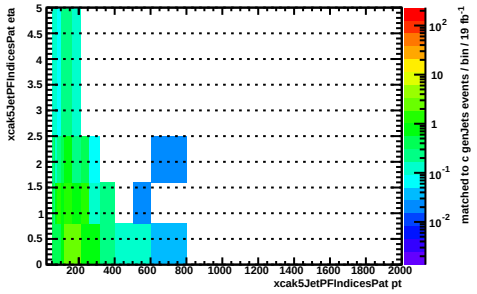
tt



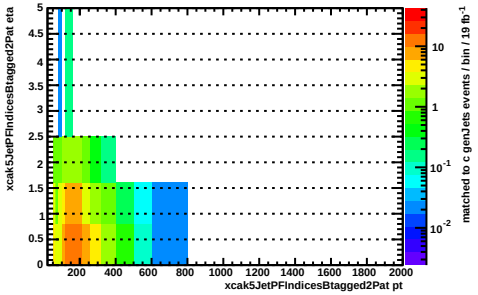
SingleTop



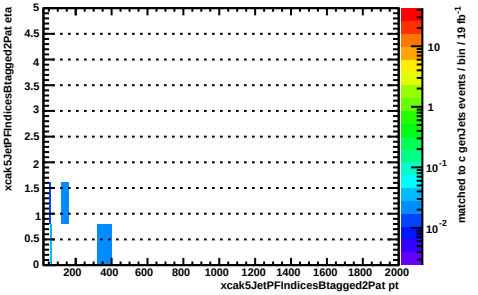
VV



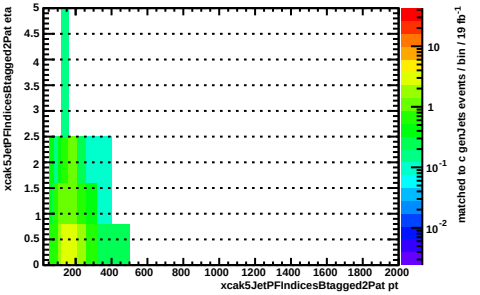
Standard Model



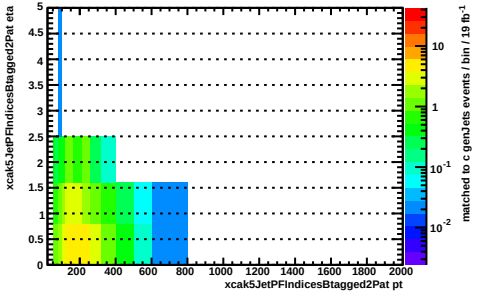
Drell-Yan



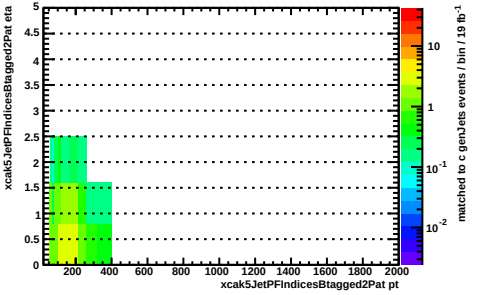
W->lv + jets



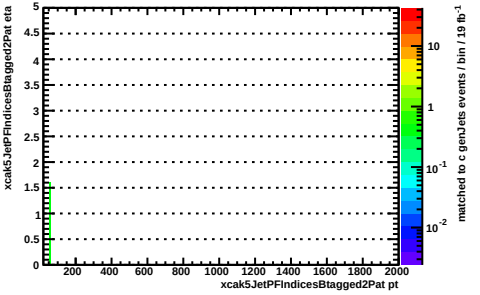
Z->vv + jets



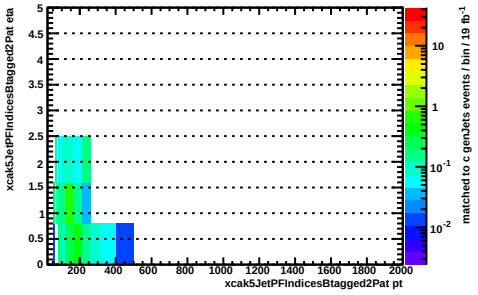
tt



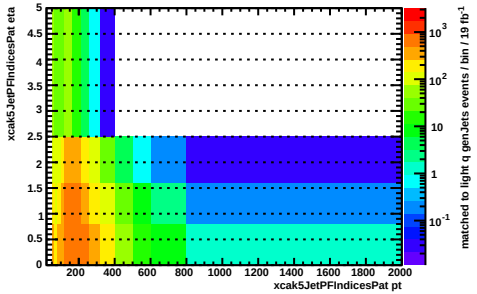
SingleTop



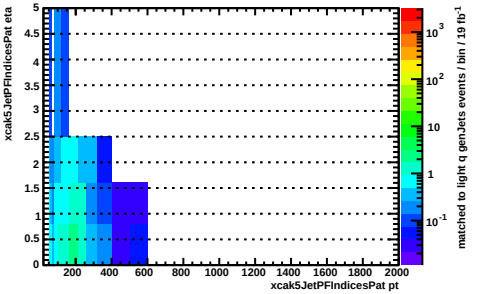
VV



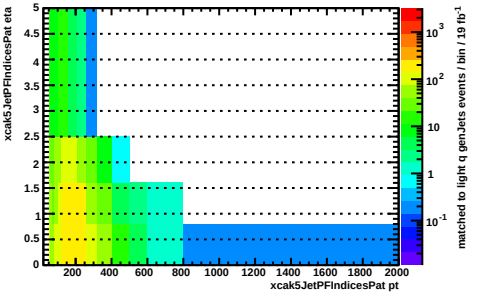
Standard Model



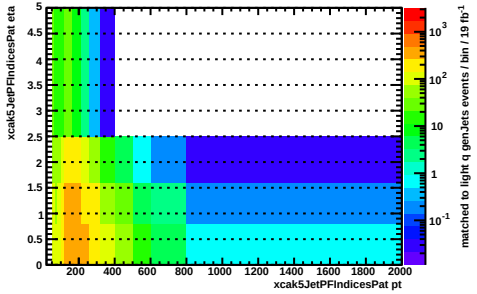
Drell-Yan



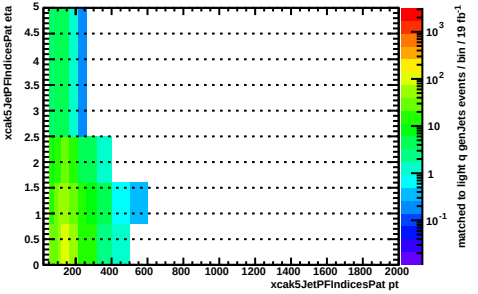
W->lv + jets



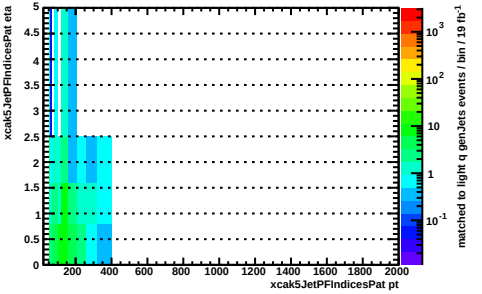
Z->vv + jets



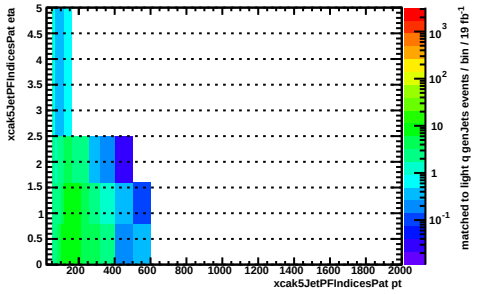
tt



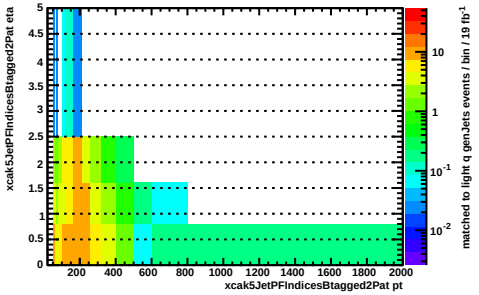
SingleTop



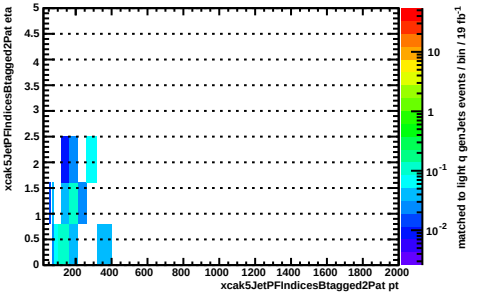
VV



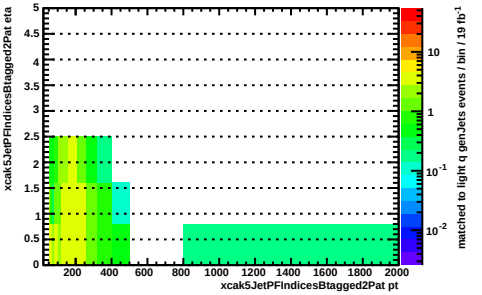
Standard Model



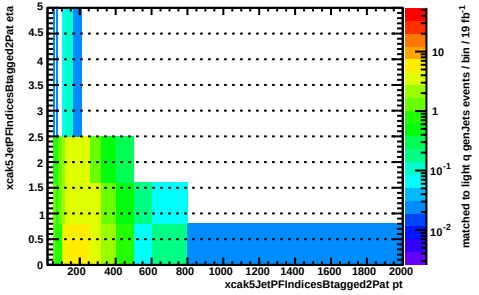
Drell-Yan



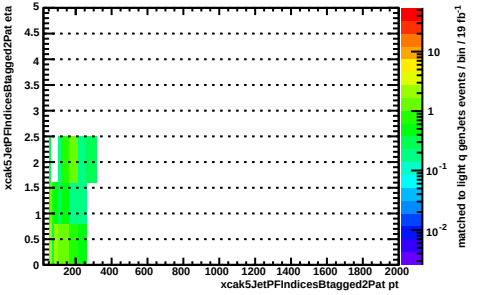
W->lv + jets



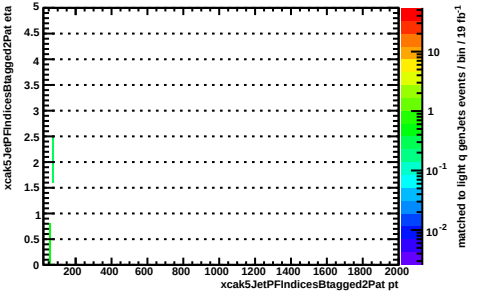
Z->vv + jets



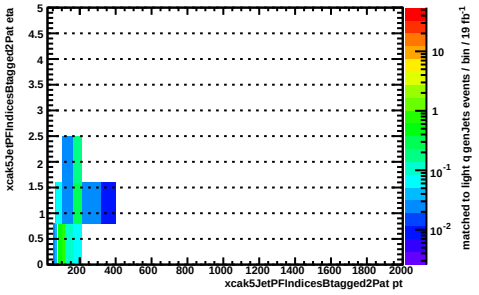
tt

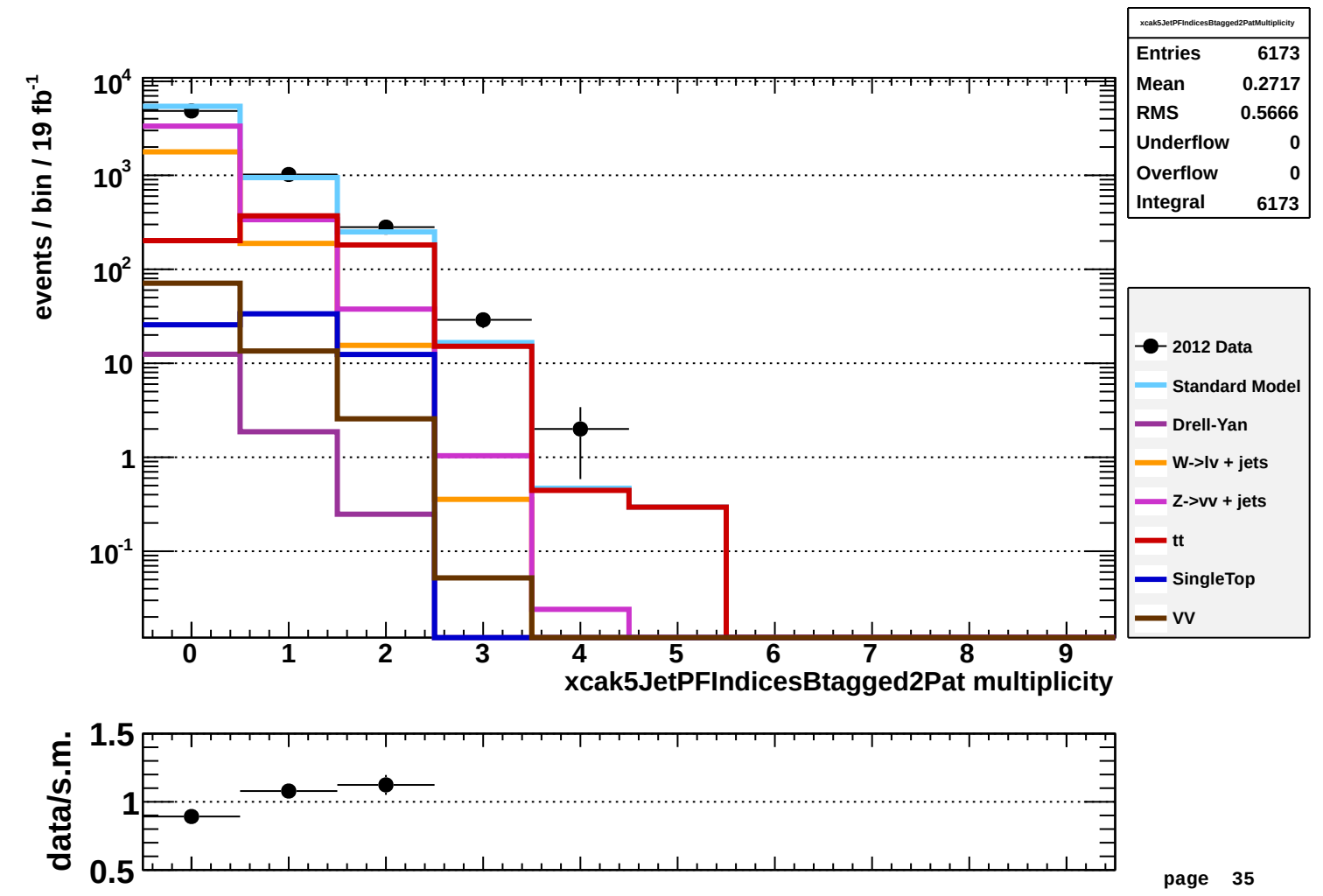


SingleTop



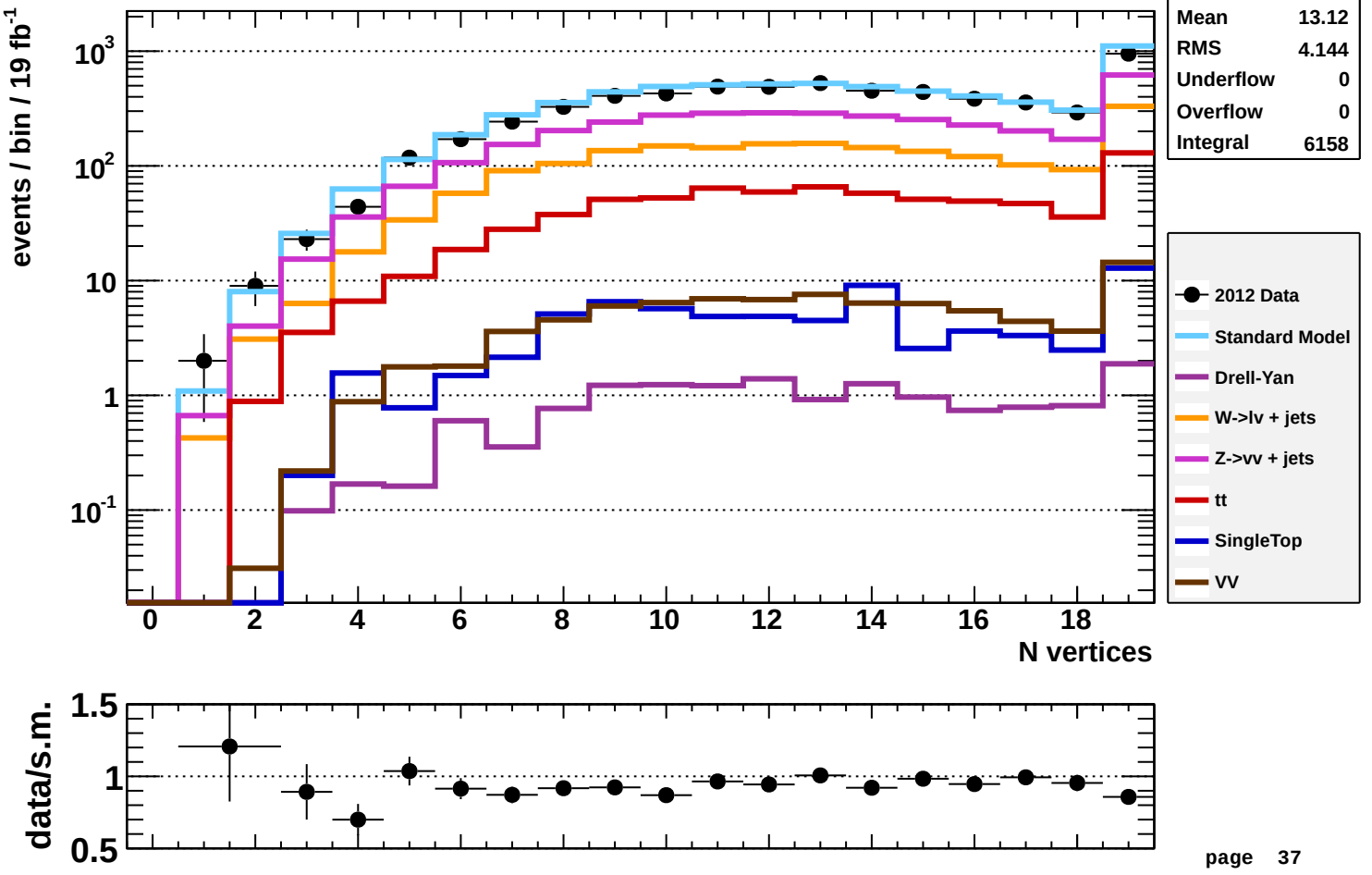
VV

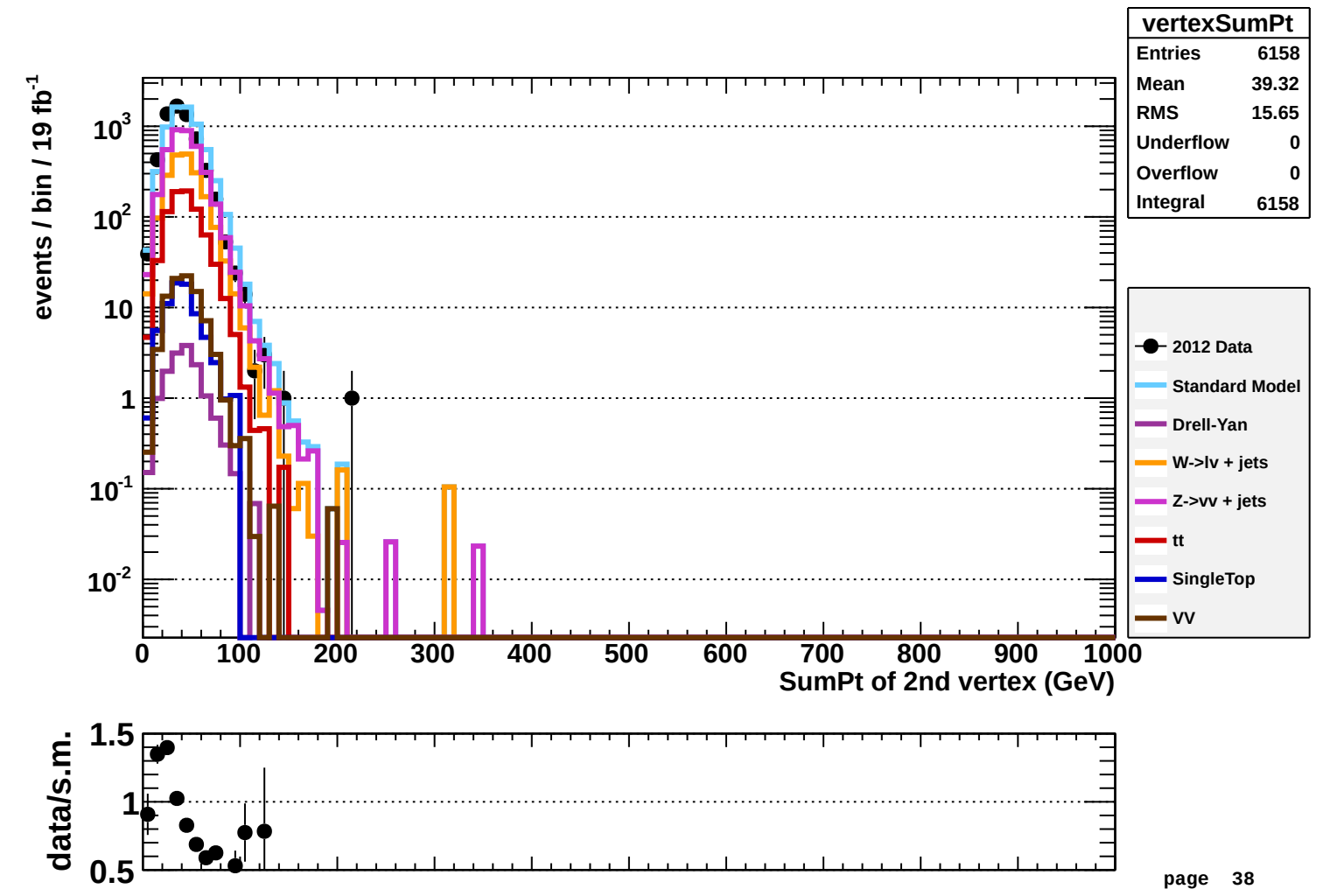


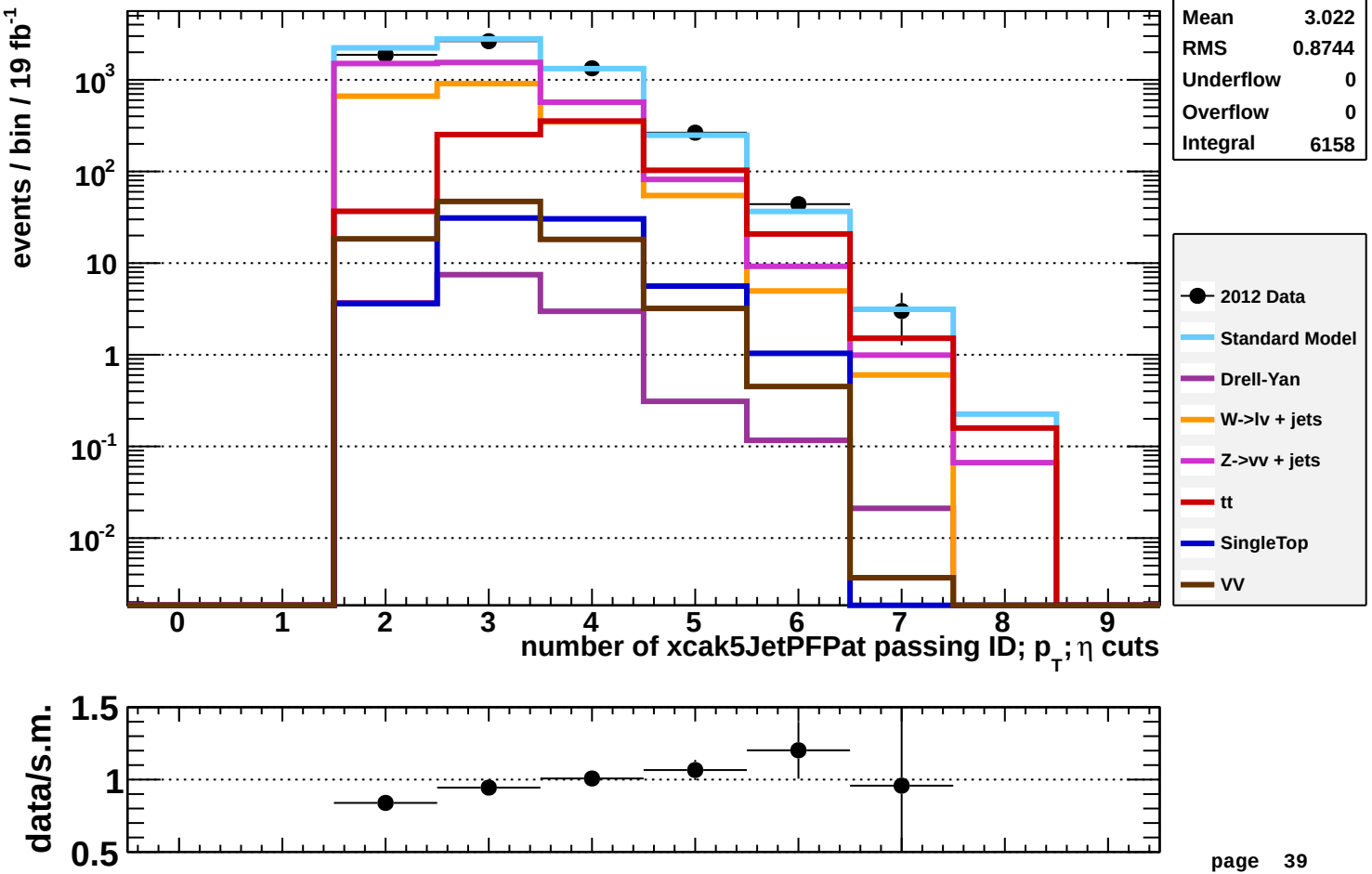

xcak5JetPFIndicesBtagged2PatMultiplicity
Entries 6173
Mean 0.2717
RMS 0.5666
Underflow 0
Overflow 0
Integral 6173
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
xcak5JetPFIndicesBtagged2Pat multiplicity
data/s.m.

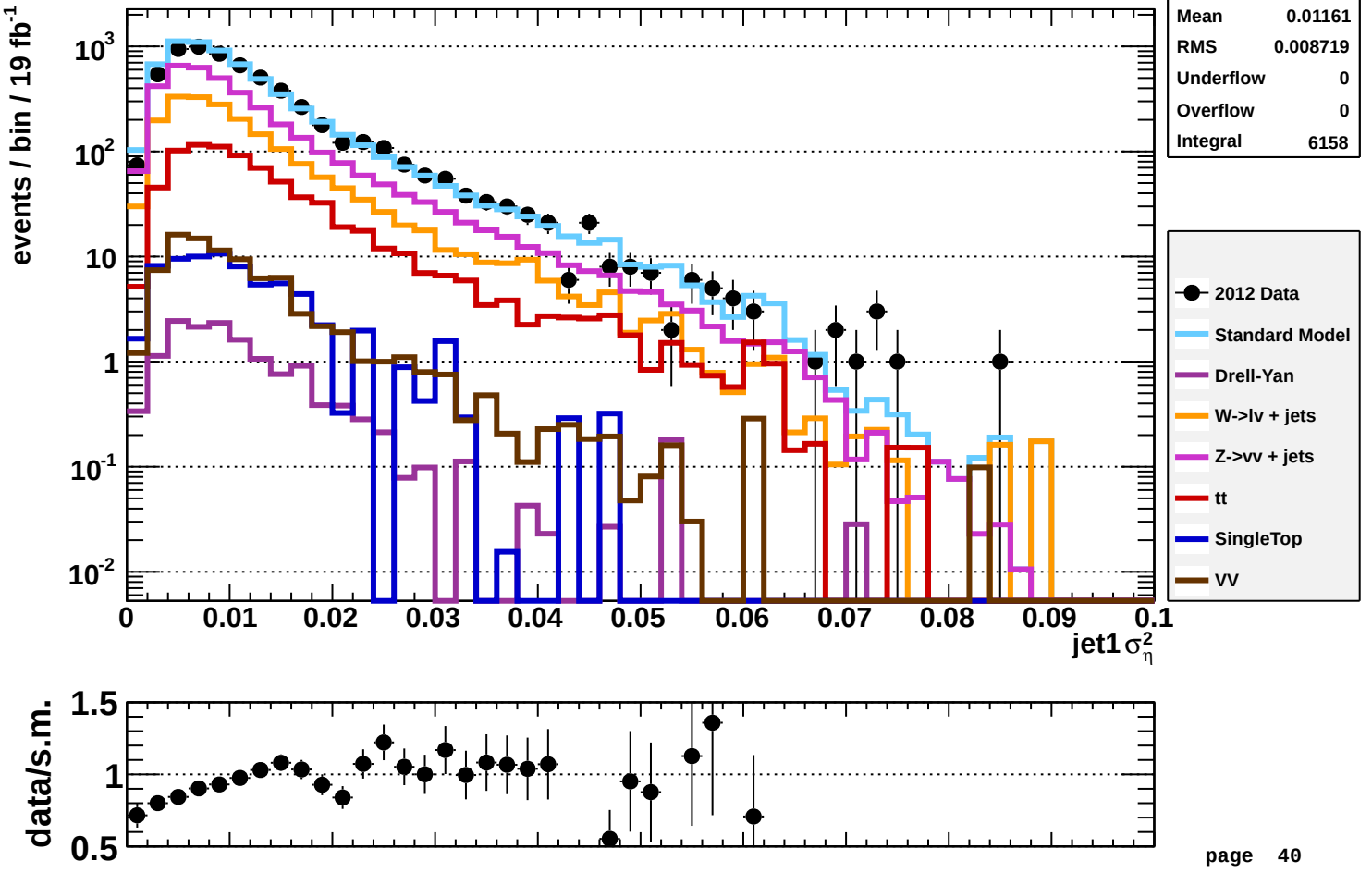
q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetPFSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
u:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPF <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	PFRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetPFAlphaTEtPat
G:	value	1.00<=hcalLaserEvent2012
H:	value	1.00<=ecalLaserCalibEvent2012

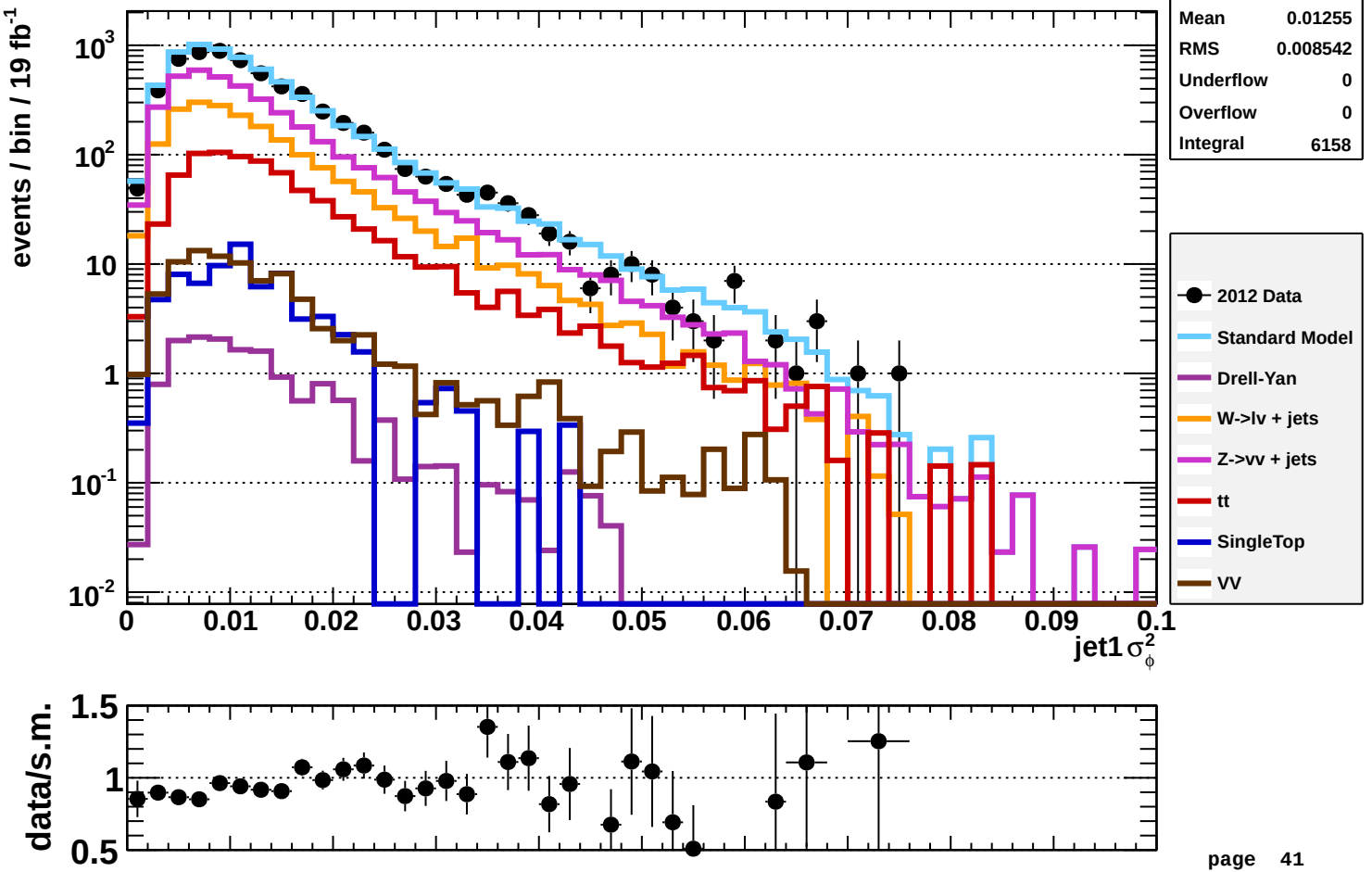
	2012 Data Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
q:	13299744 1.0522(5)e+7	6.501(10)e+5	5.802(5)e+6	1.4714(6)e+6	1.9470(6)e+6	4.665(4)e+5	1.846(1)e+5	1.2640(7)
r:	11661811 2.3977(9)e+6	1.139(2)e+5	9.628(7)e+5	2.281(1)e+5	8.545(4)e+5	1.807(3)e+5	5.775(8)e+4	4.864(2)
s:	10367684 1.1536(5)e+6	4.254(5)e+4	3.506(3)e+5	8.863(6)e+4	5.579(3)e+5	8.82(2)e+4	2.574(5)e+4	8.987(5)
t:	10363080 1.1516(5)e+6	4.246(5)e+4	3.503(3)e+5	8.862(6)e+4	5.564(3)e+5	8.81(2)e+4	2.572(5)e+4	8.999(5)
u:	10348024 1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
v:	10348024 1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
w:	9836240 1.1139(5)e+6	4.069(5)e+4	3.413(3)e+5	8.741(5)e+4	5.345(3)e+5	8.48(2)e+4	2.517(5)e+4	8.831(5)
x:	9811777 9.505(4)e+5	2.563(4)e+4	2.522(2)e+5	8.739(5)e+4	4.816(3)e+5	7.96(2)e+4	2.410(5)e+4	10.323(6)
y:	9779118 9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783 7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104 7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474 7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922 2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)
D:	678926 1.404(1)e+5	1.96(1)e+3	4.752(9)e+4	3.748(4)e+4	4.228(9)e+4	8.28(6)e+3	2.84(2)e+3	4.837(8)
E:	639480 1.399(1)e+5	1.96(1)e+3	4.737(9)e+4	3.737(4)e+4	4.213(9)e+4	8.25(6)e+3	2.83(2)e+3	4.571(8)
F:	6173 6.64(2)e+3	14.6(8)	1.98(2)e+3	3.71(1)e+3	7.7(1)e+2	72(6)	87(2)	0.93(1)
G:	6173 -	-	-	-	-	-	-	
H:	6158 -	-	-	-	-	-	-	

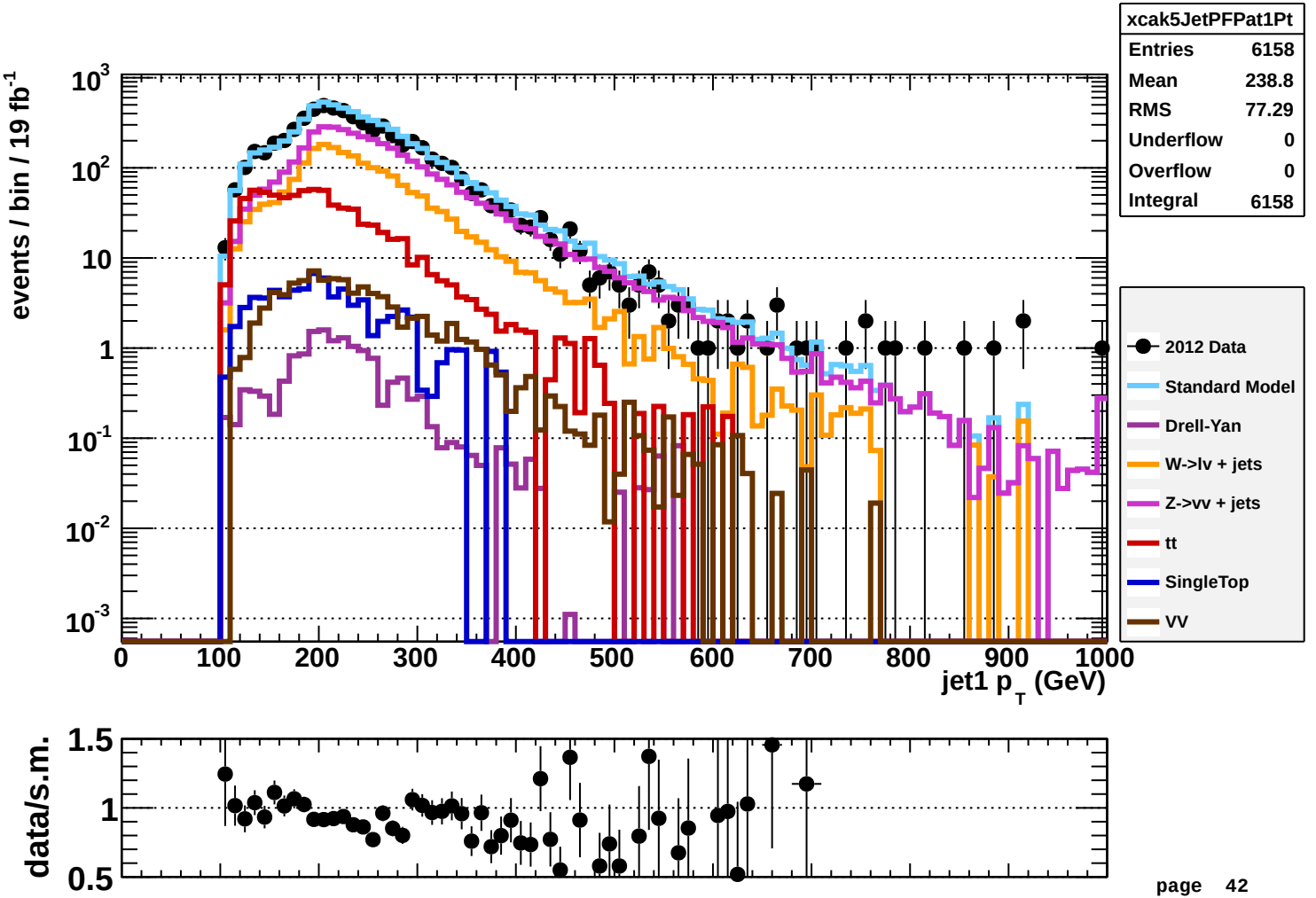

vertexIndices
Entries 6158
Mean 13.12
RMS 4.144
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
N vertices
data/s.m.

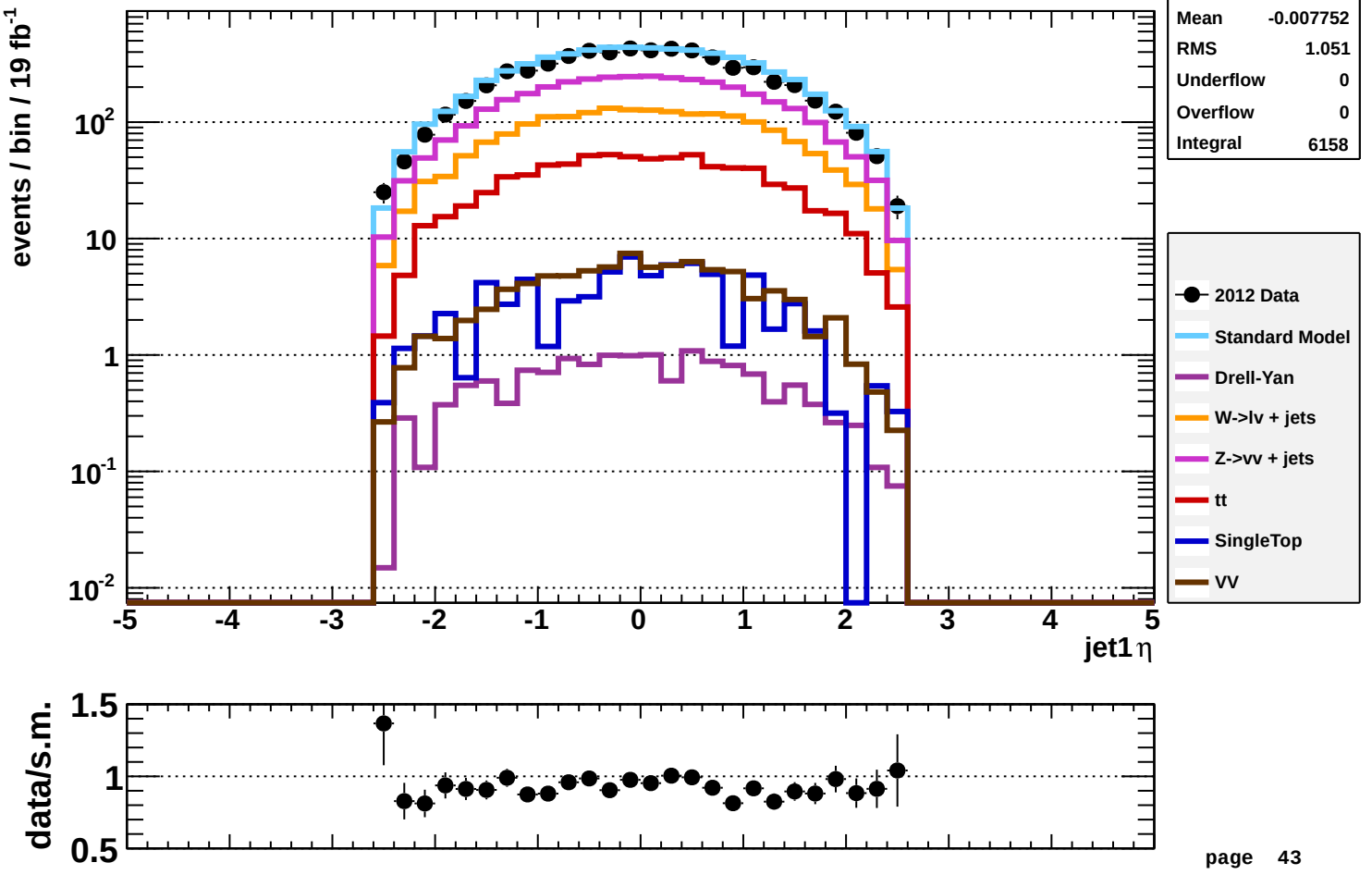

vertexSumPt
Entries 6158
Mean 39.32
RMS 15.65
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
SumPt of 2nd vertex (GeV)
data/s.m.

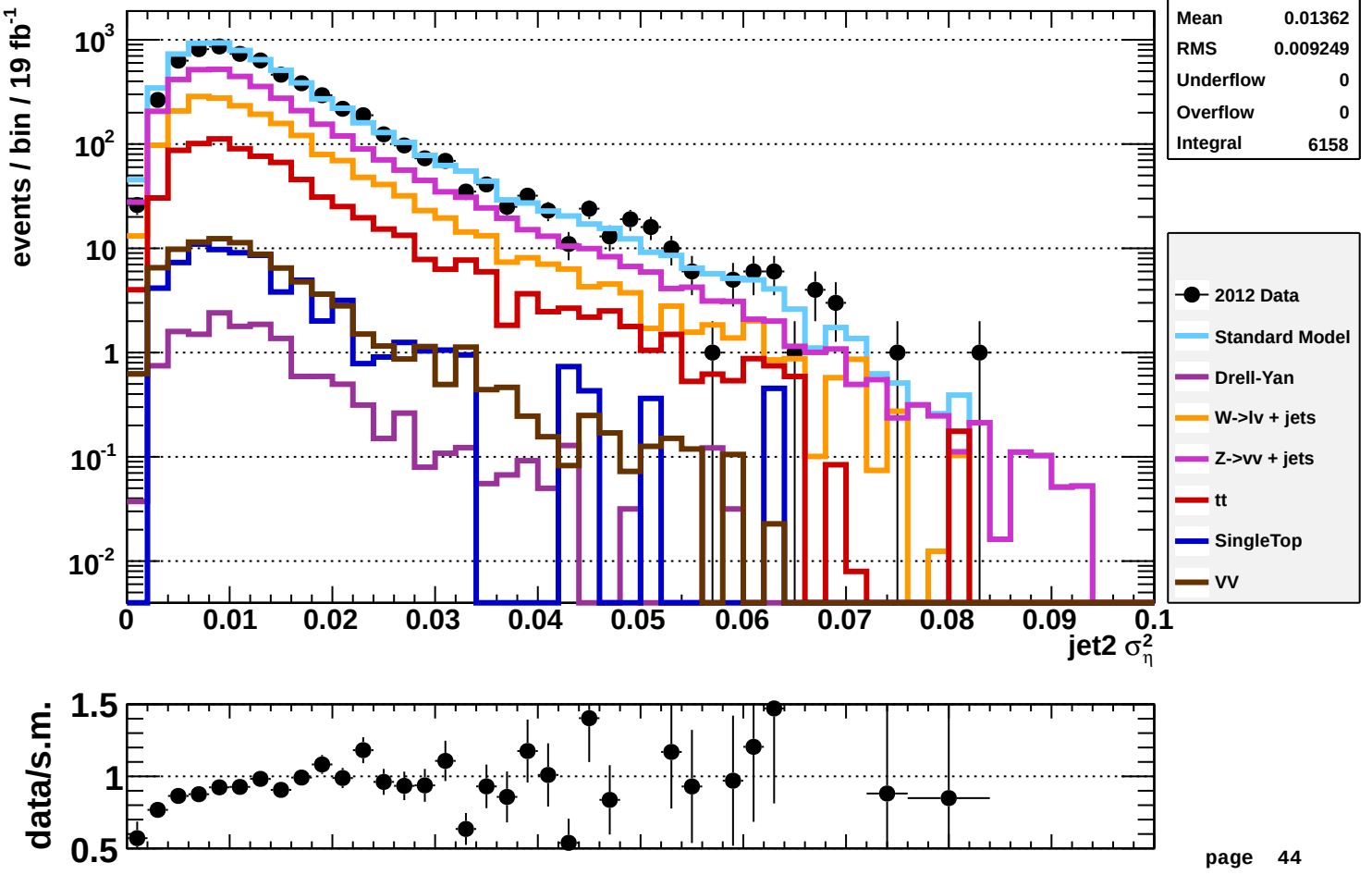

jetMultiplicity
Entries 6158
Mean 3.022
RMS 0.8744
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

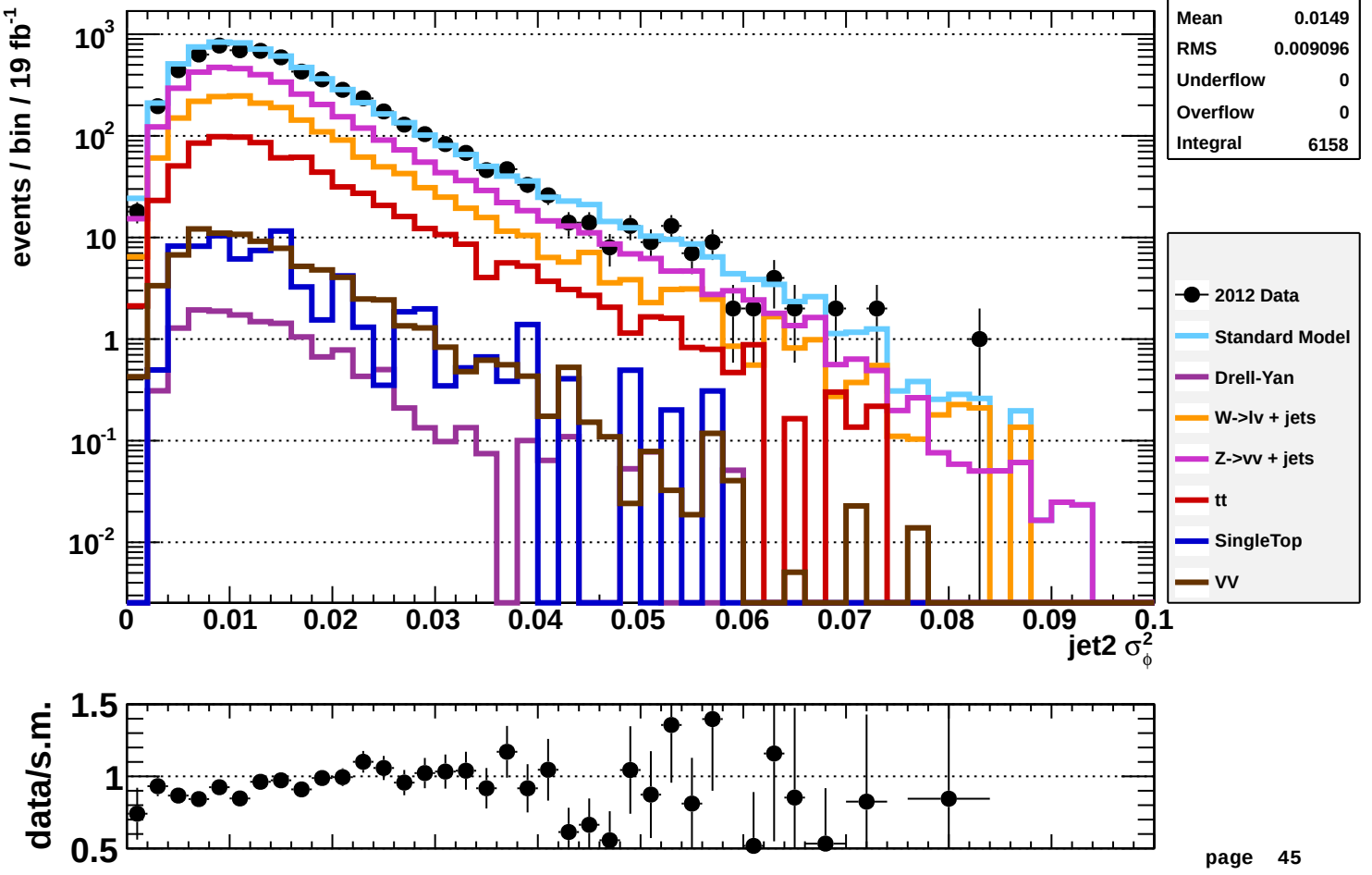

xcak5JetPFPat1Eta2mom
Entries 6158
Mean 0.01161
RMS 0.008719
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 σ2η
data/s.m.

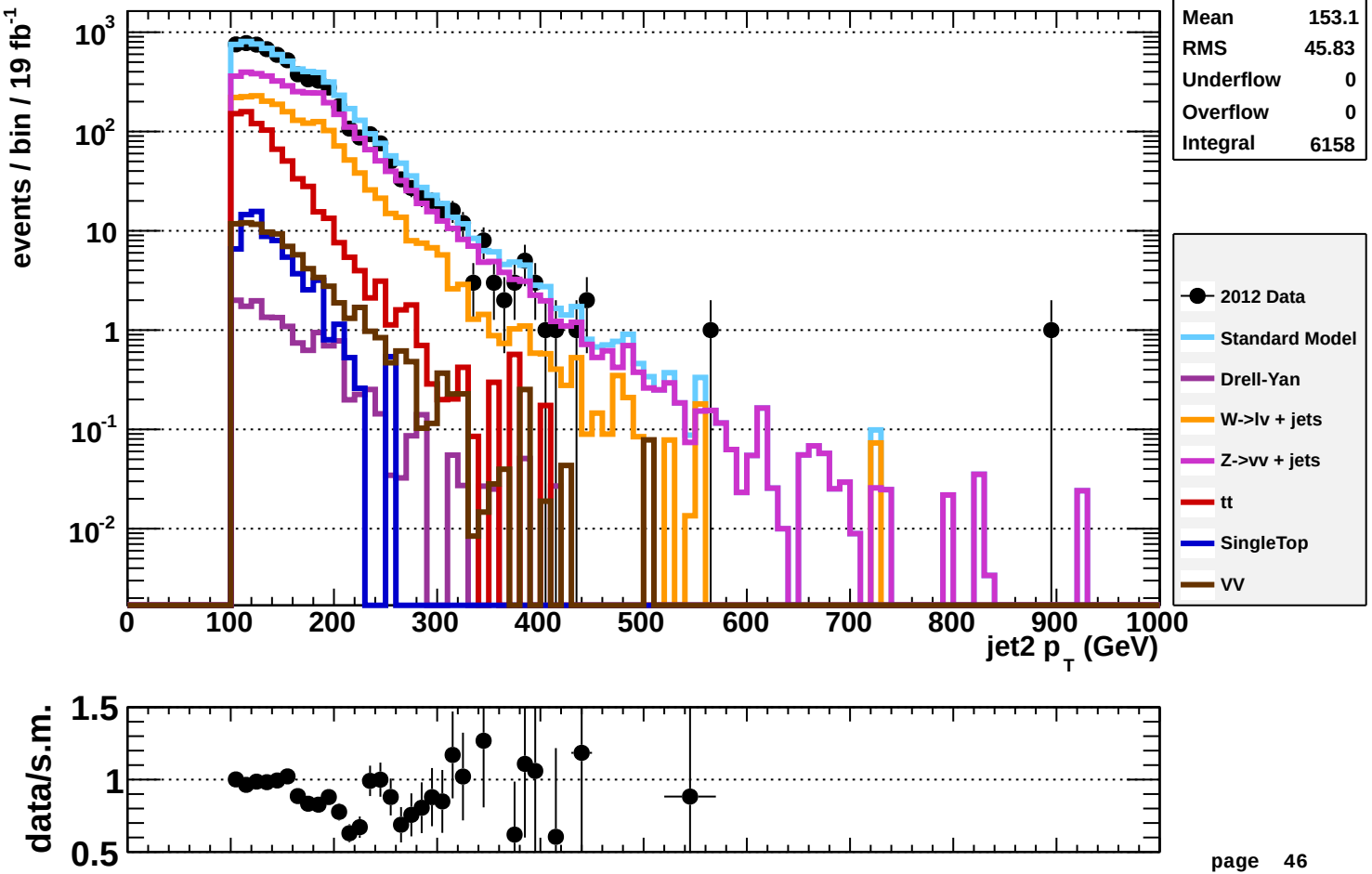

xcak5JetPFPat1Phi2mom
Entries 6158
Mean 0.01255
RMS 0.008542
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 σ2φ
data/s.m.

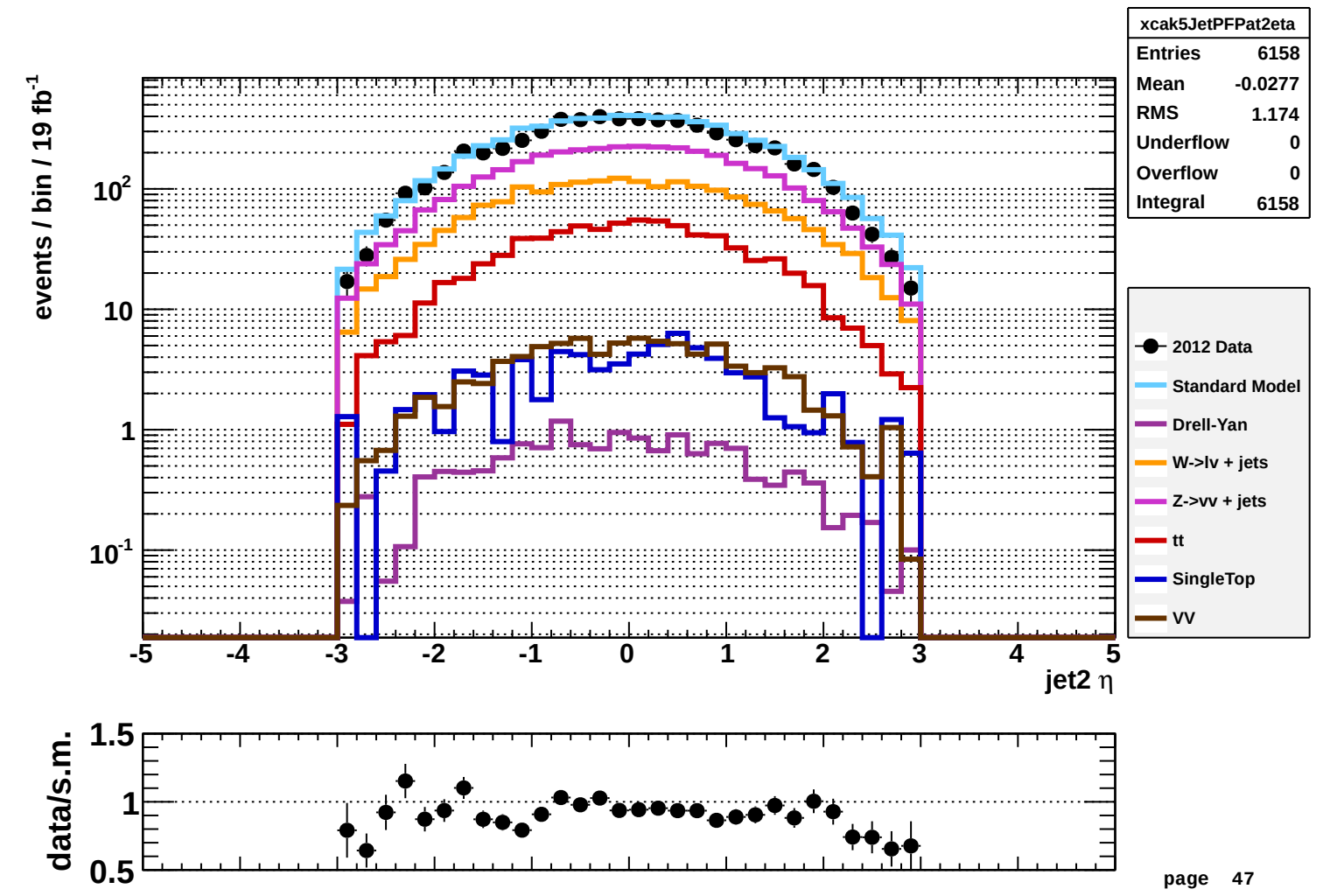

xcak5JetPFPat1Pt
Entries 6158
Mean 238.8
RMS 77.29
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 pT (GeV)
data/s.m.

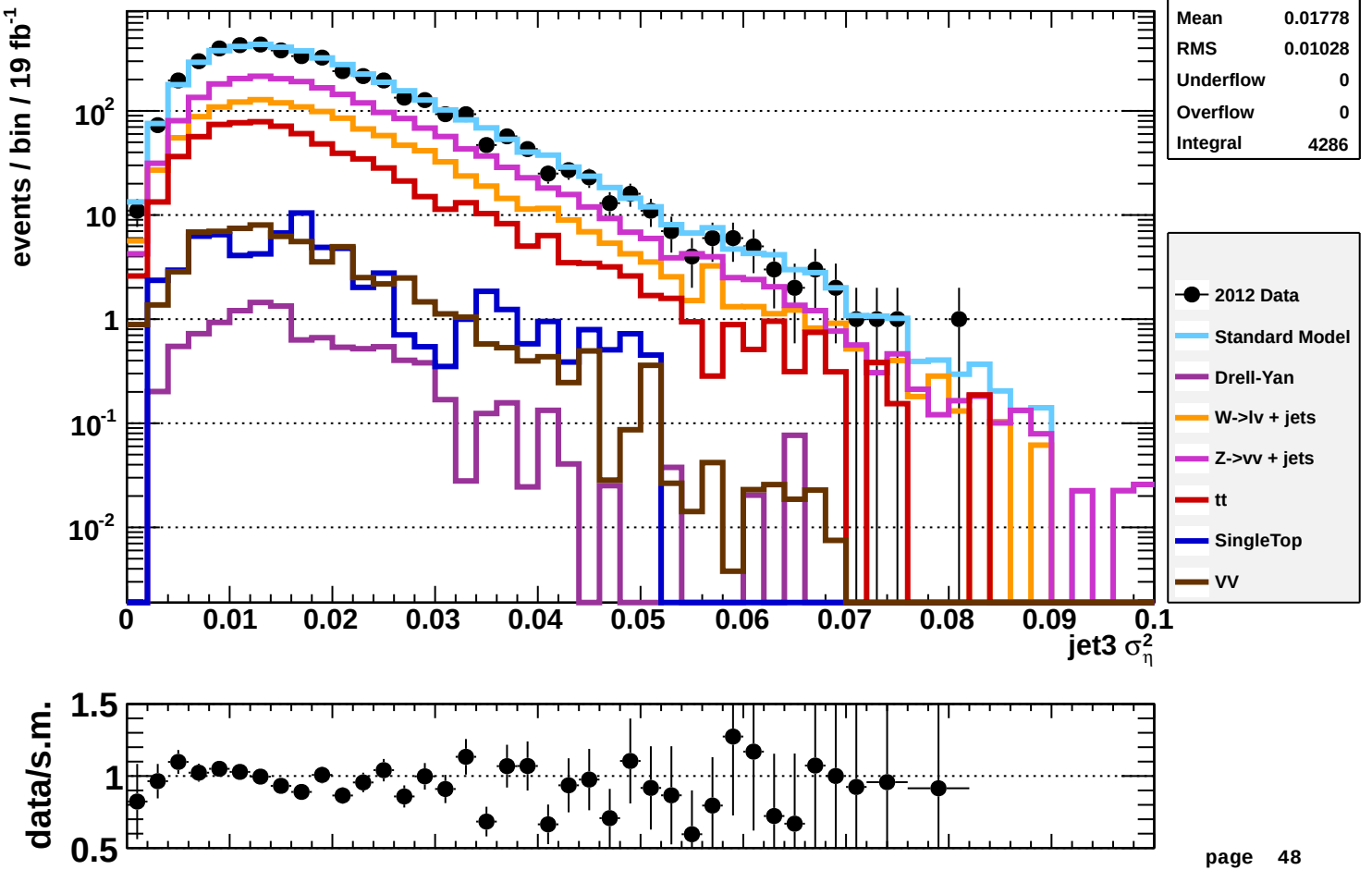

xcak5JetPFPat1eta
Entries 6158
Mean -0.007752
RMS 1.051
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 η
data/s.m.

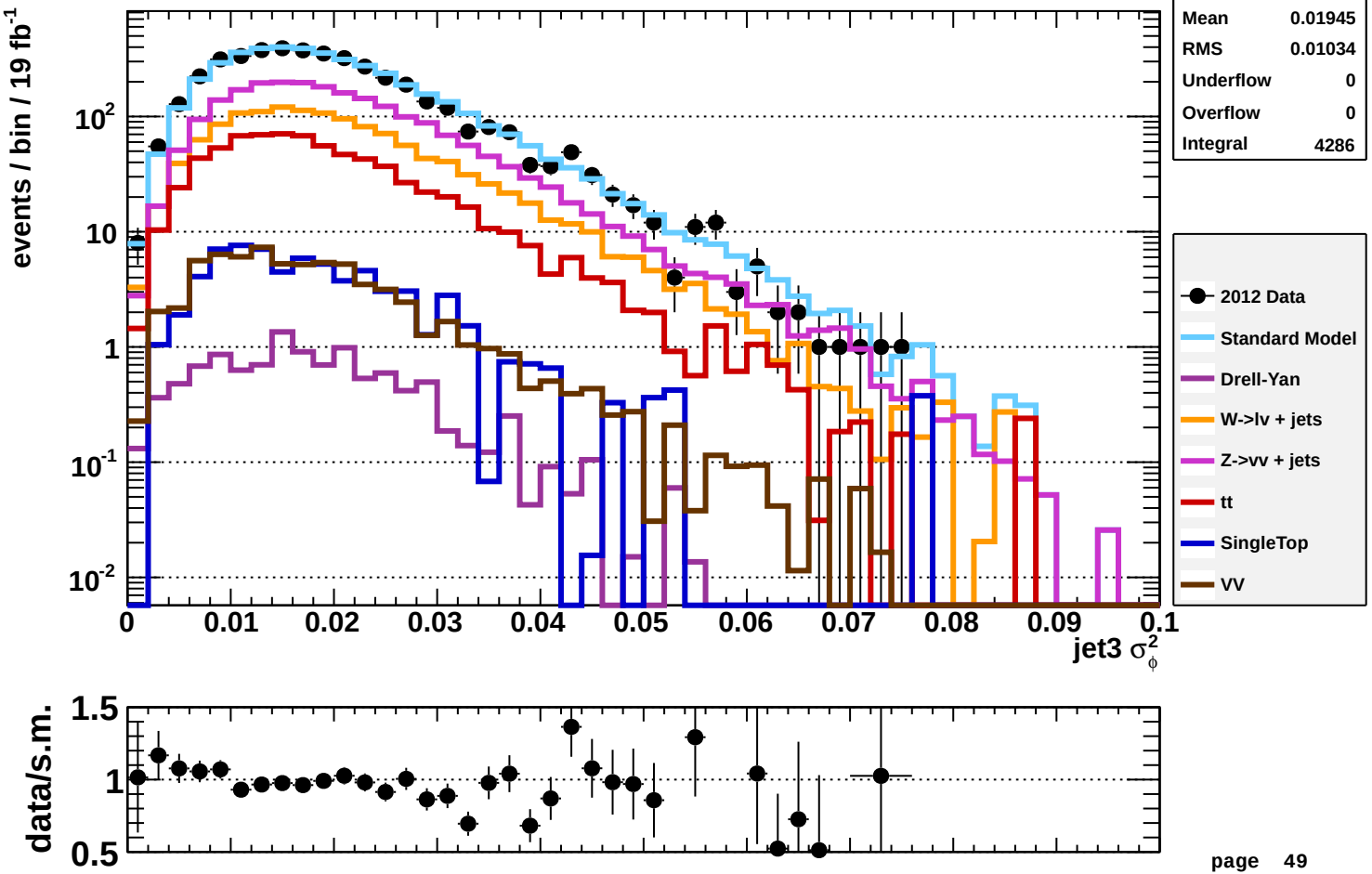

xcak5JetPFPat2Eta2mom
Entries 6158
Mean 0.01362
RMS 0.009249
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 σ2η
data/s.m.

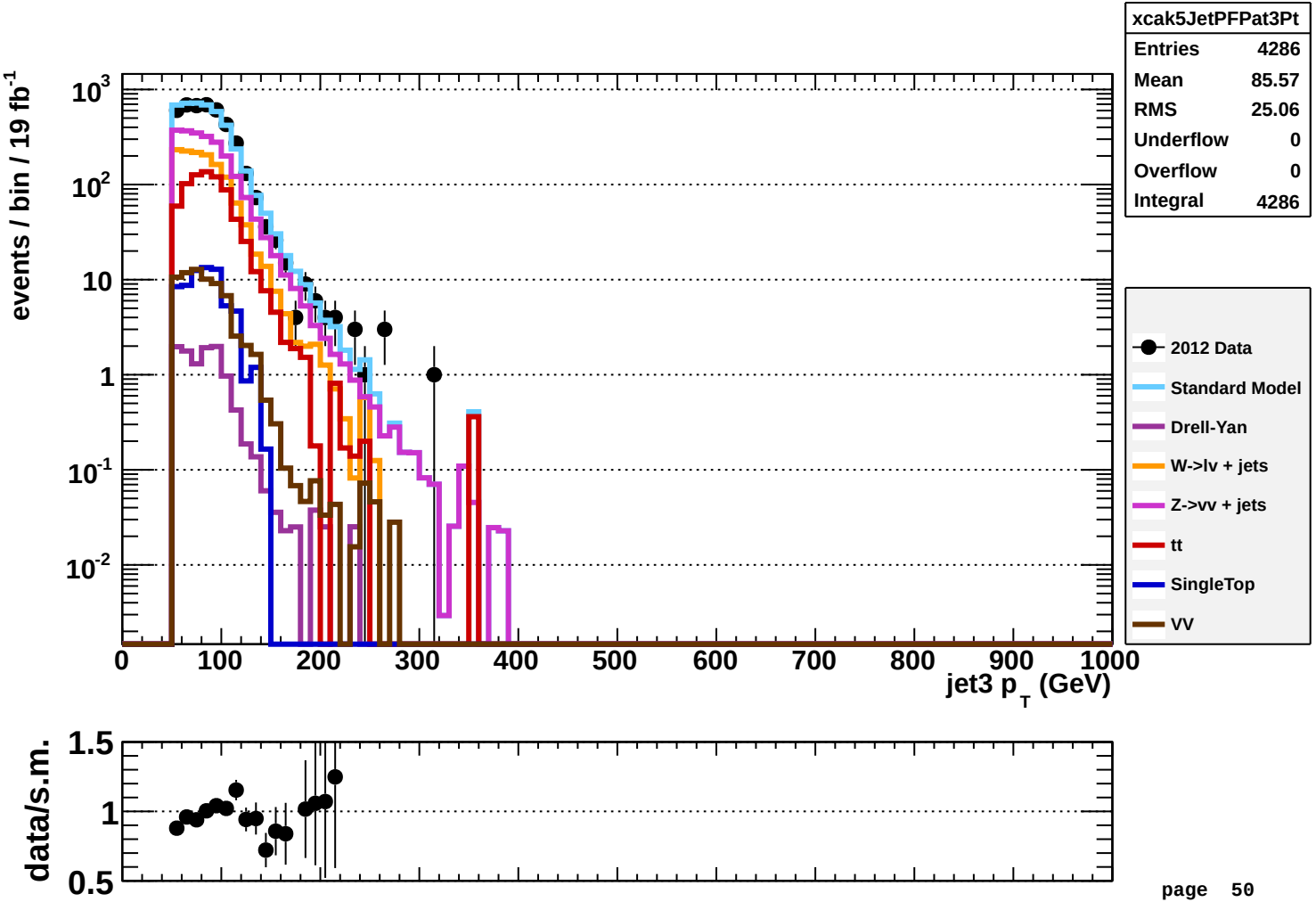

xcak5JetPFPat2Phi2mom
Entries 6158
Mean 0.0149
RMS 0.009096
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 σ2φ
data/s.m.

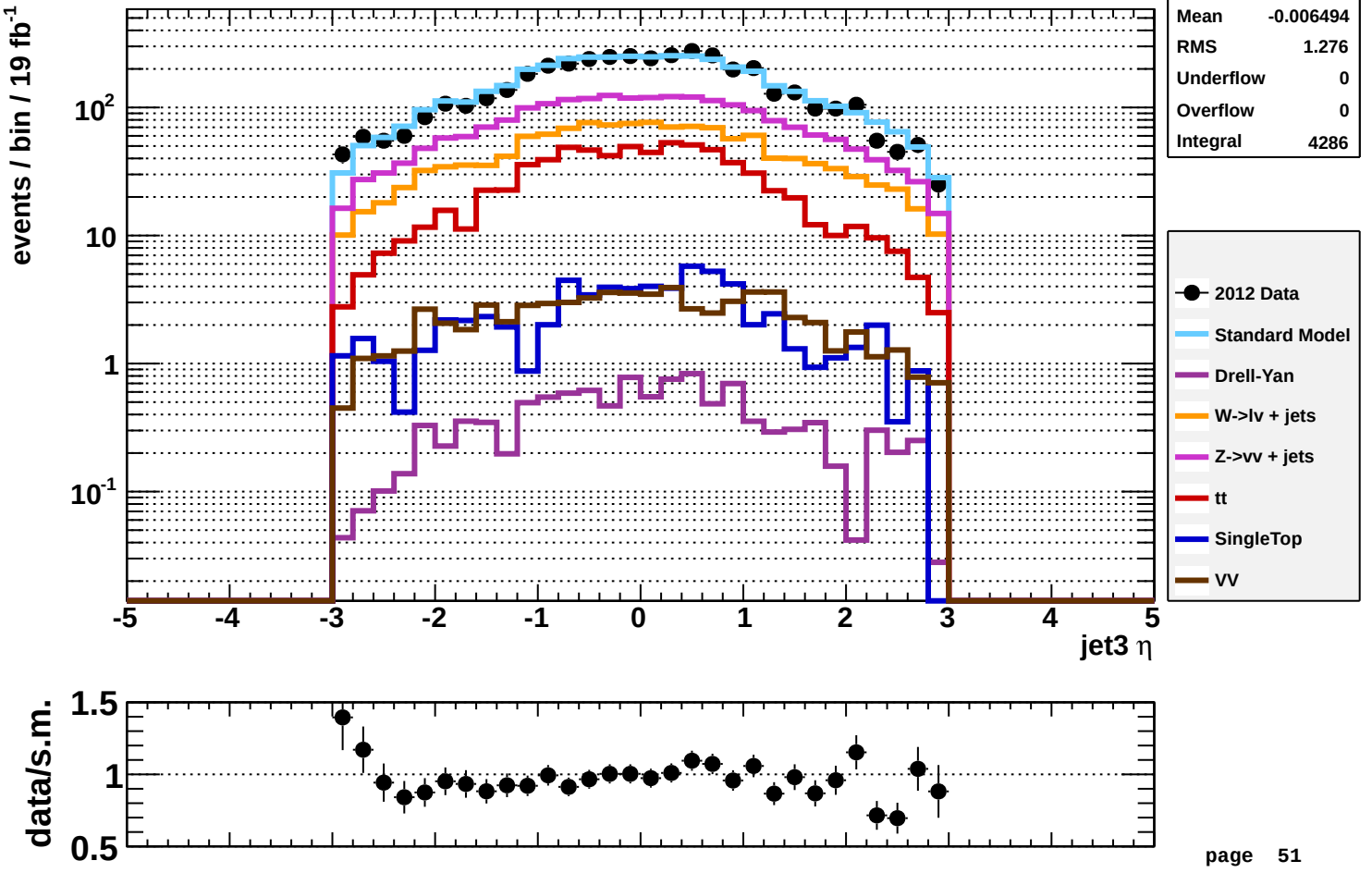

xcak5JetPFPat2Pt
Entries 6158
Mean 153.1
RMS 45.83
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 pT (GeV)
data/s.m.

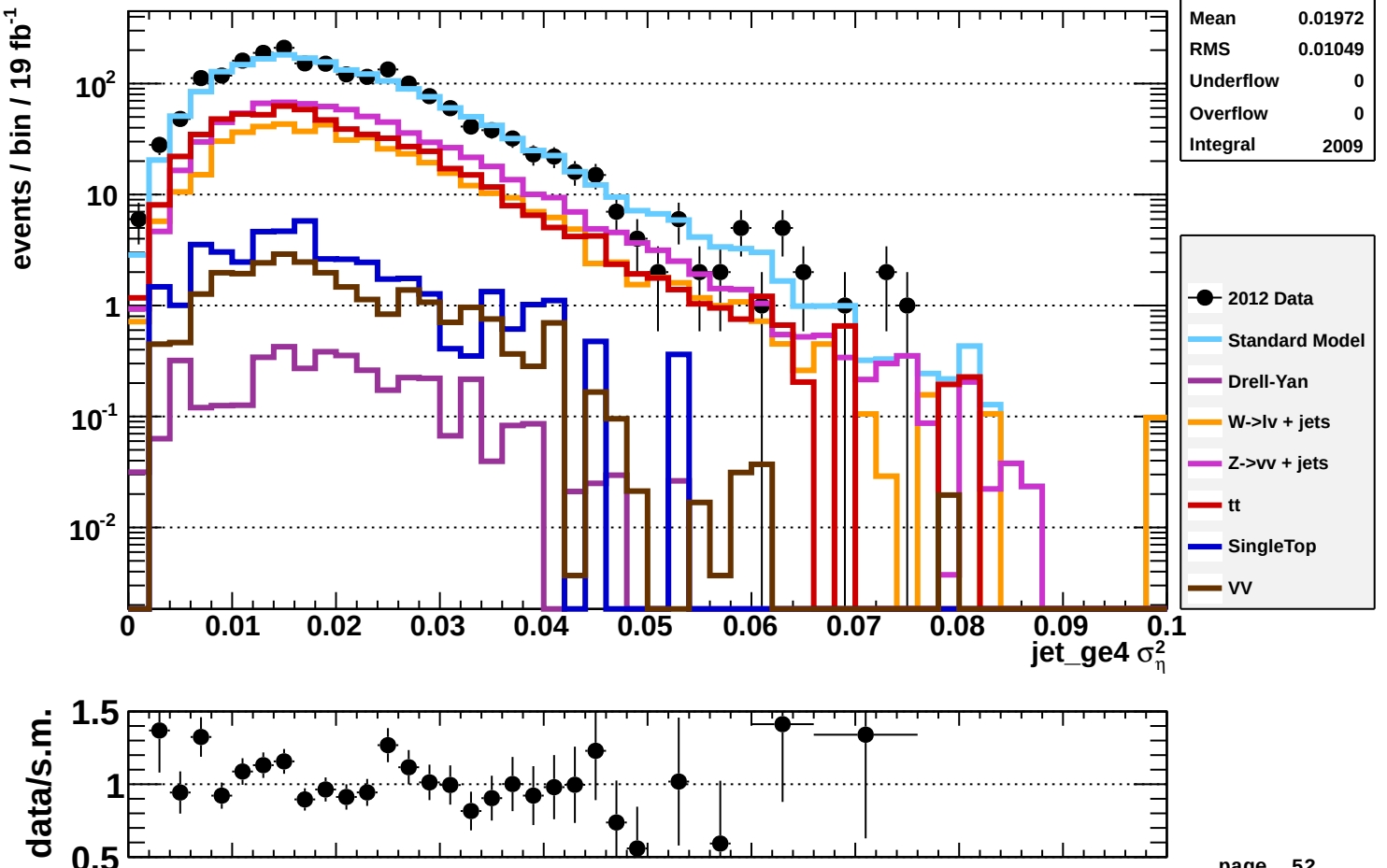

xcak5JetPFPat2eta
Entries 6158
Mean -0.0277
RMS 1.174
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 η
data/s.m.

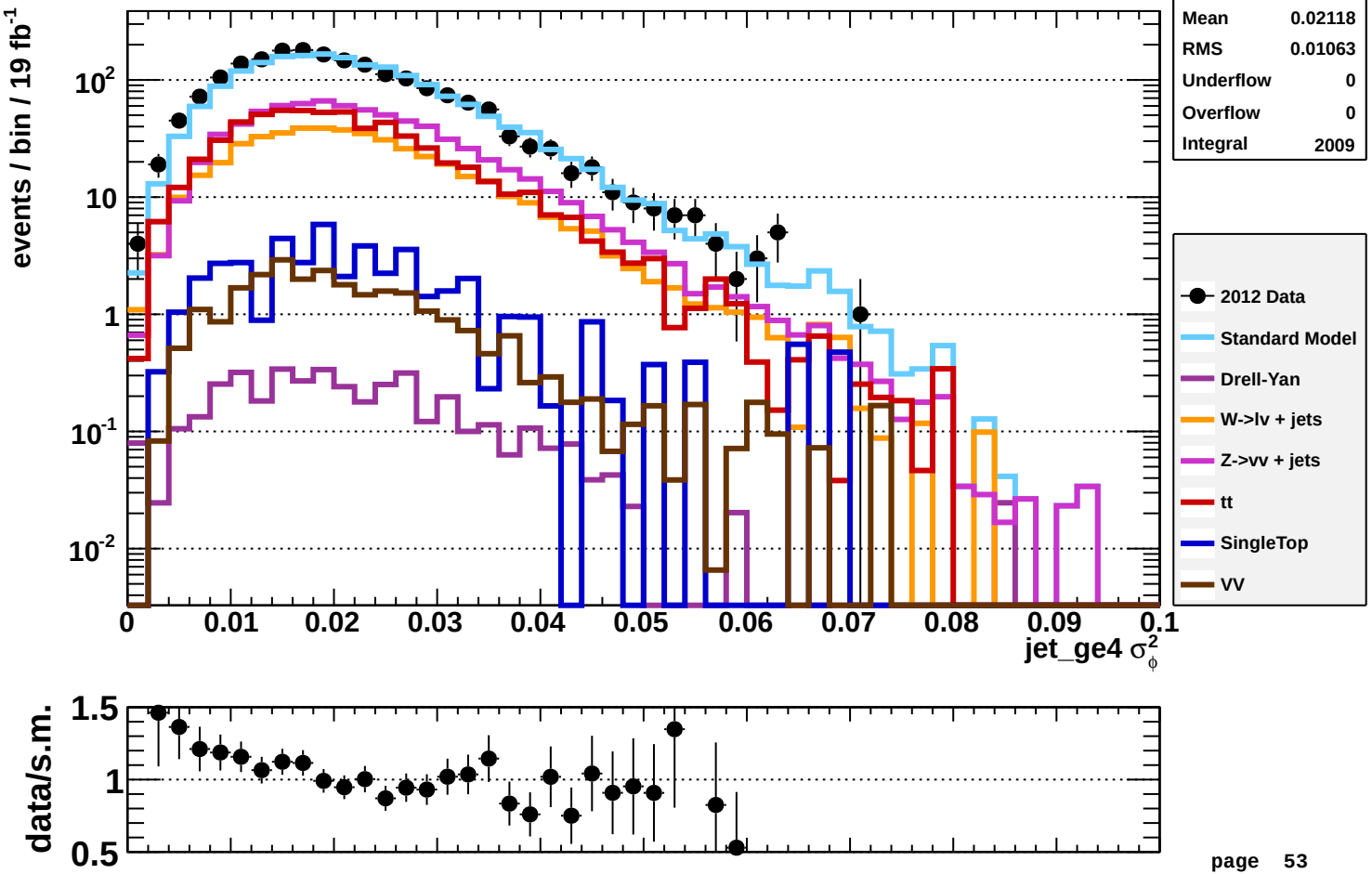

xcak5JetPFPat3Eta2mom
Entries 4286
Mean 0.01778
RMS 0.01028
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 σ2η
data/s.m.

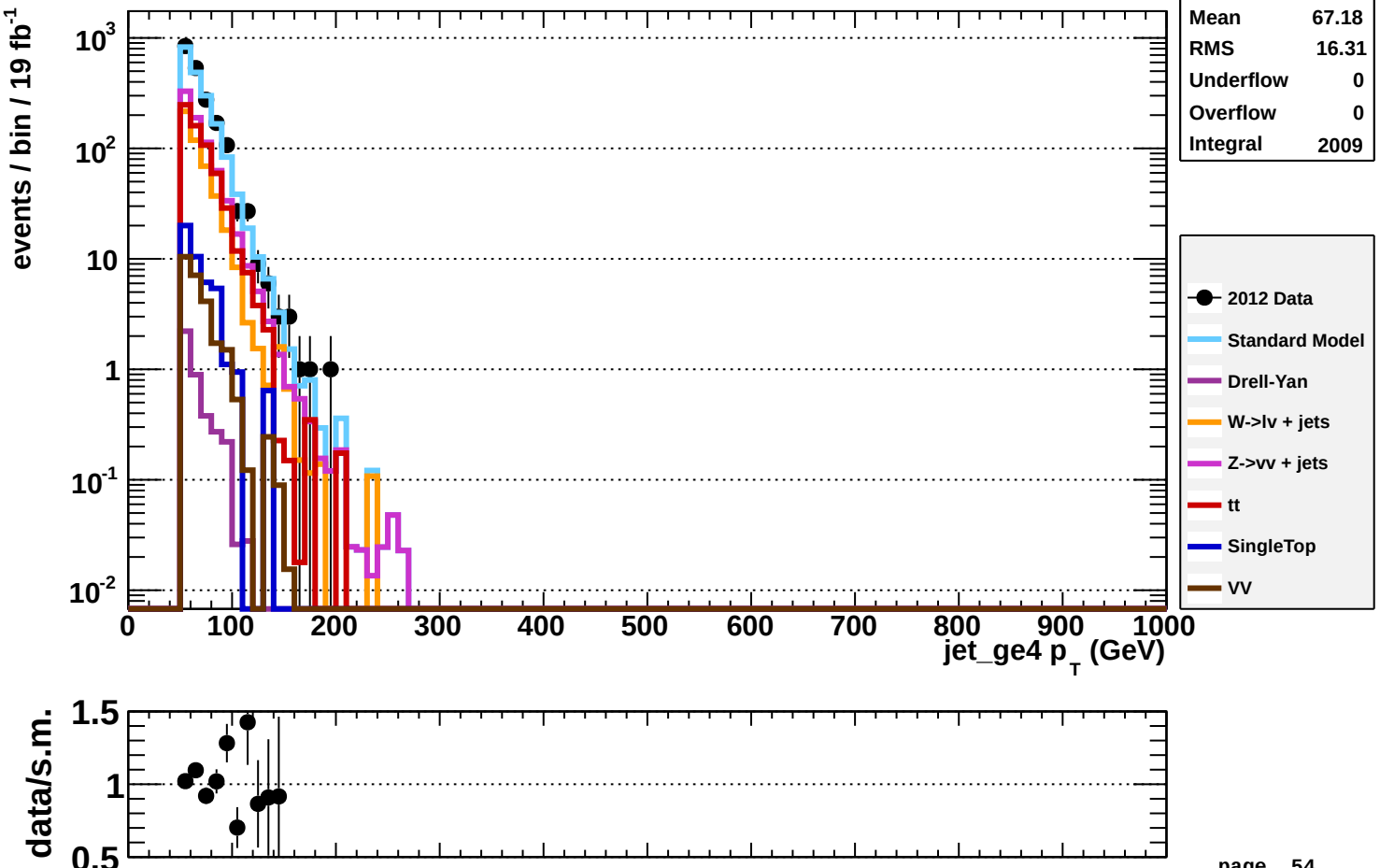

xcak5JetPFPat3Phi2mom
Entries 4286
Mean 0.01945
RMS 0.01034
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 σ2φ
data/s.m.

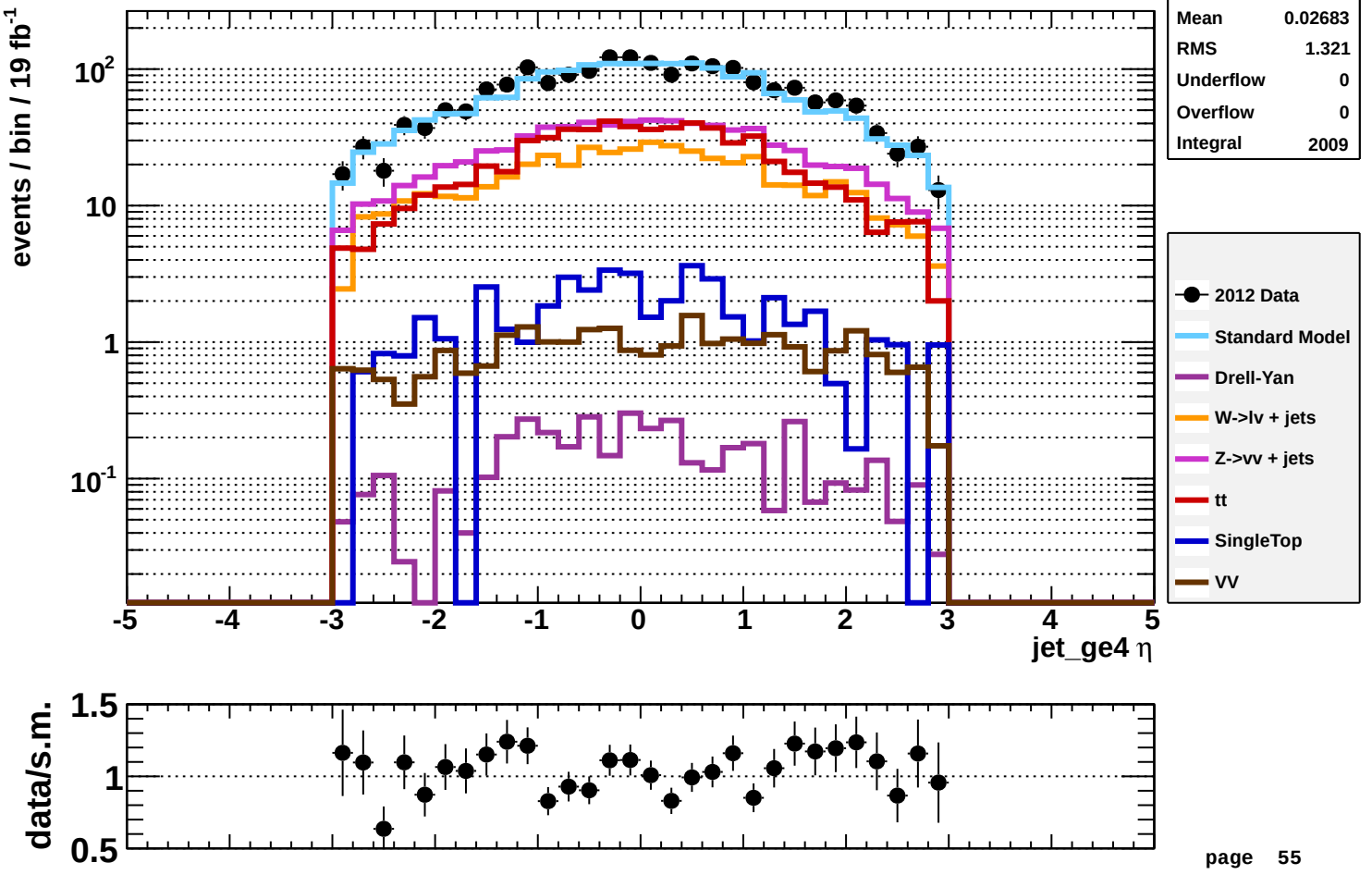

xcak5JetPFPat3Pt
Entries 4286
Mean 85.57
RMS 25.06
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 pT (GeV)
data/s.m.

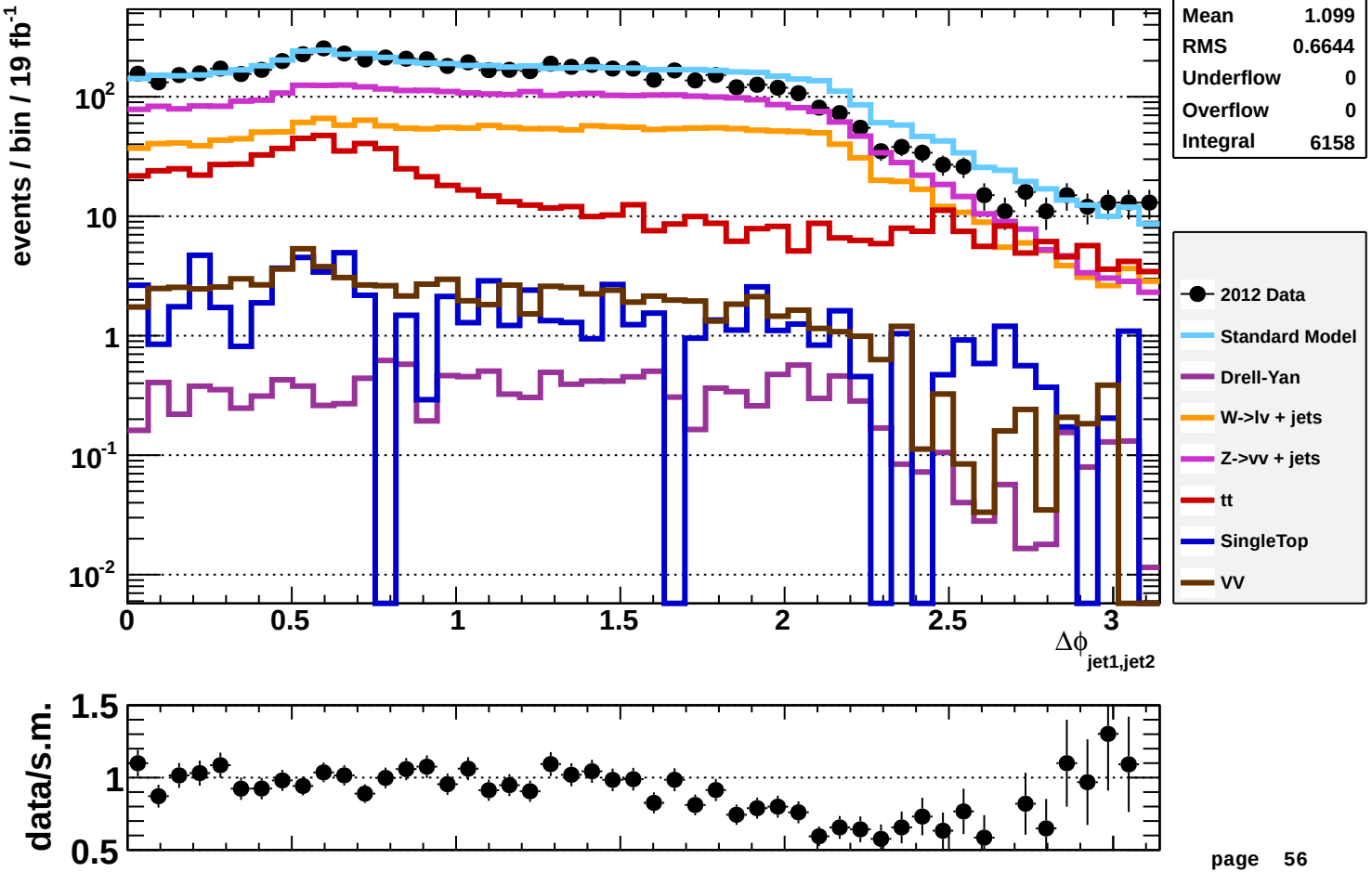

xcak5JetPFPat3eta
Entries 4286
Mean -0.006494
RMS 1.276
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 η
data/s.m.

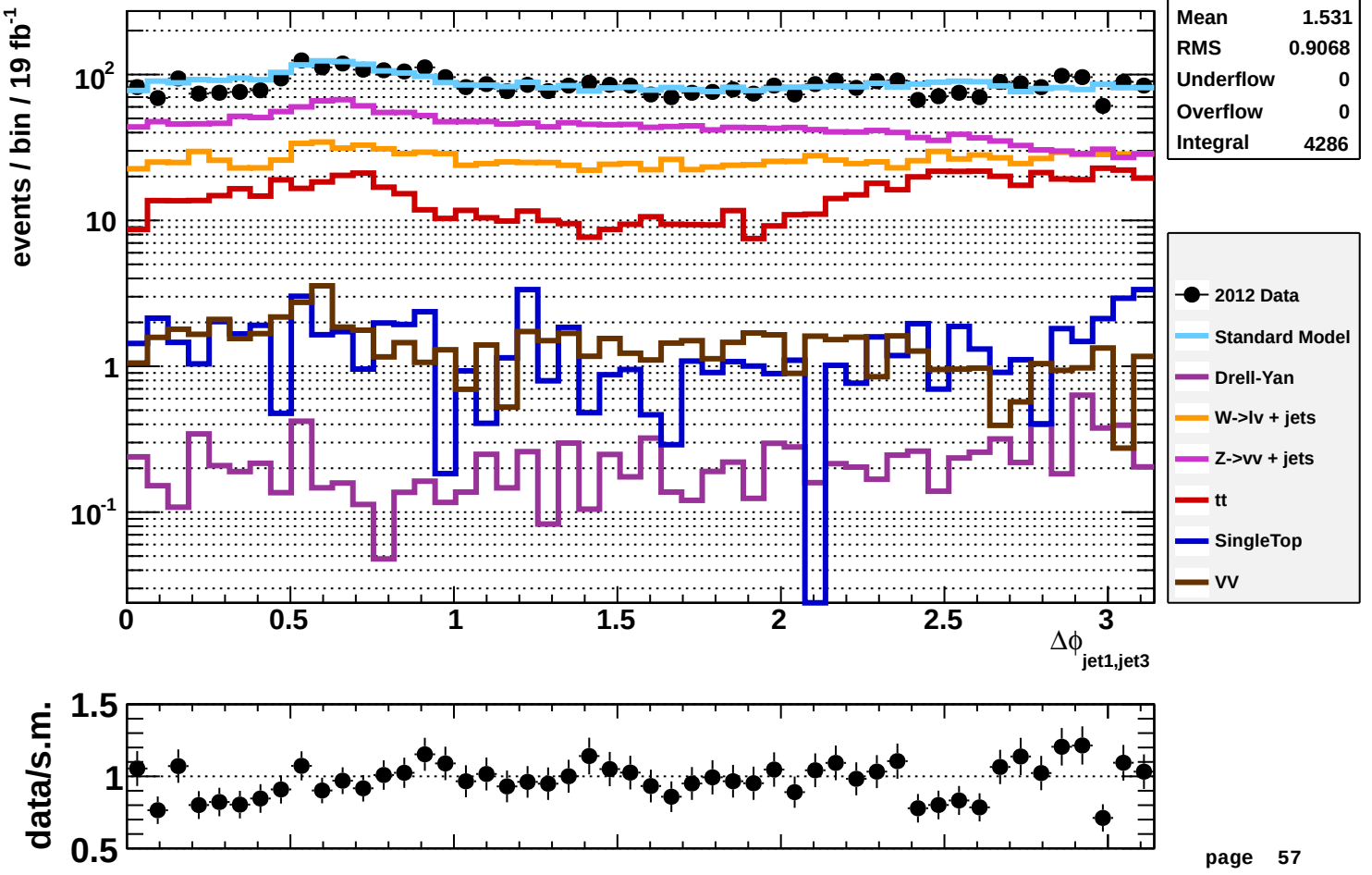

xcak5JetPFPat_ge4Eta2mom
Entries 2009
Mean 0.01972
RMS 0.01049
Underflow 0
Overflow 0
Integral 2009
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 σ2η
data/s.m.

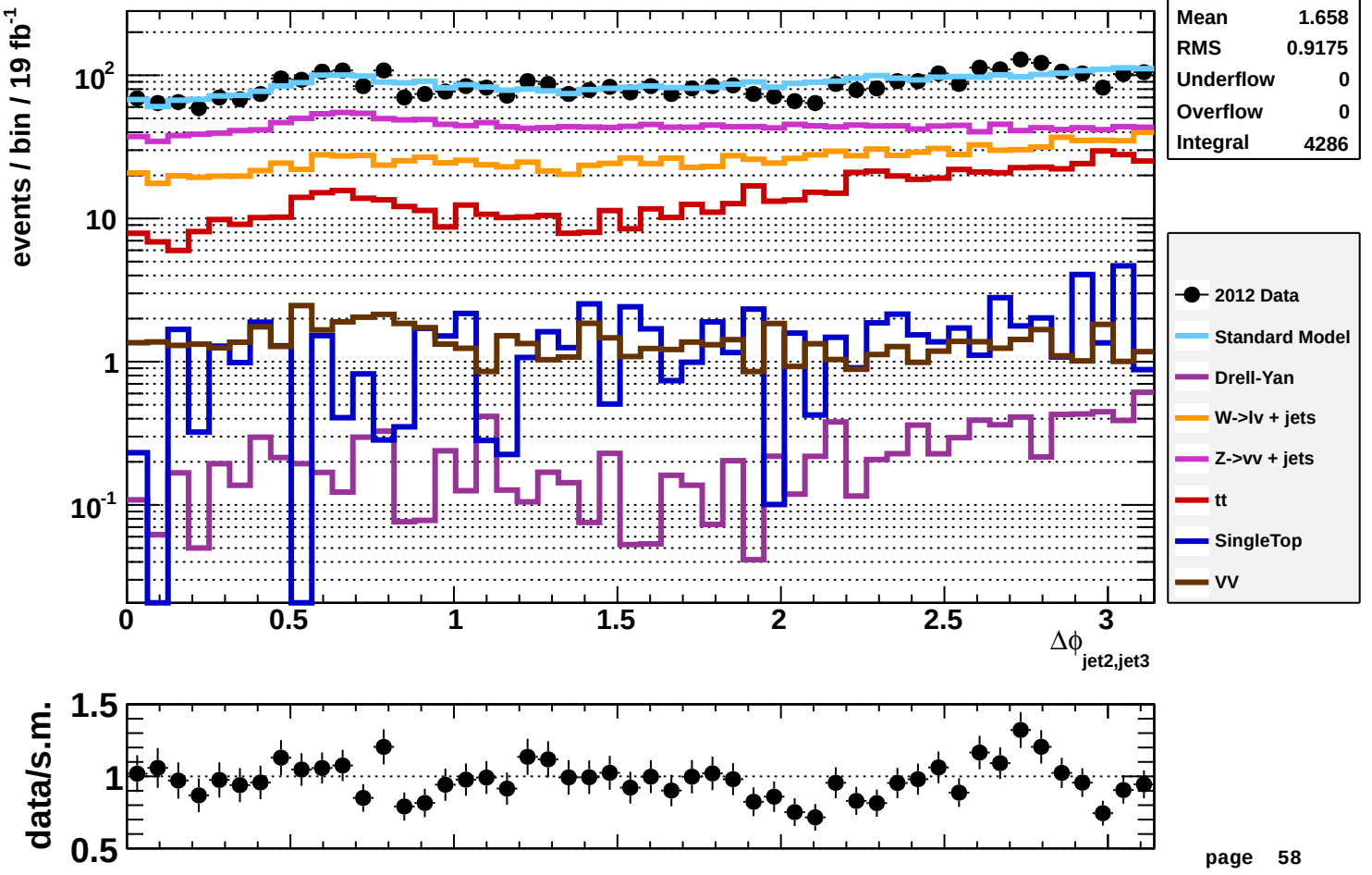

xcak5JetPFPat_ge4Phi2mom
Entries 2009
Mean 0.02118
RMS 0.01063
Underflow 0
Overflow 0
Integral 2009
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 σ2φ
data/s.m.


xcak5JetPFPat_ge4Pt
Entries 2009
Mean 67.18
RMS 16.31
Underflow 0
Overflow 0
Integral 2009
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 pT (GeV)
data/s.m.


xcak5JetPFPat_ge4eta
Entries 2009
Mean 0.02683
RMS 1.321
Underflow 0
Overflow 0
Integral 2009
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 η
data/s.m.


xcak5JetPFPatdphi12
Entries 6158
Mean 1.099
RMS 0.6644
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ jet1,jet2
data/s.m.


xcak5JetPFPatdphi13
Entries 4286
Mean 1.531
RMS 0.9068
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ jet1,jet3
data/s.m.

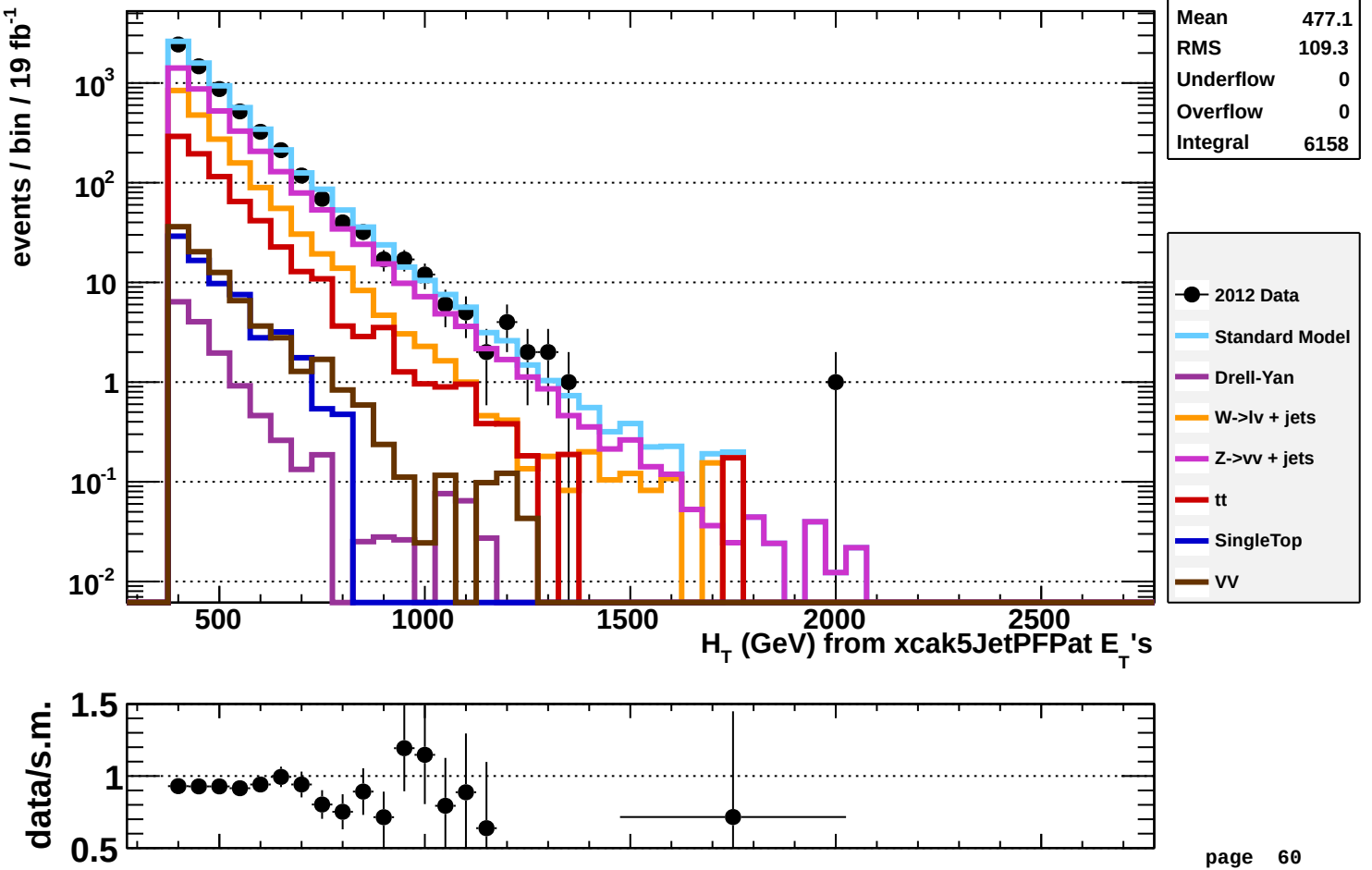

xcak5JetPFPatdphi23
Entries 4286
Mean 1.658
RMS 0.9175
Underflow 0
Overflow 0
Integral 4286
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ jet2,jet3
data/s.m.

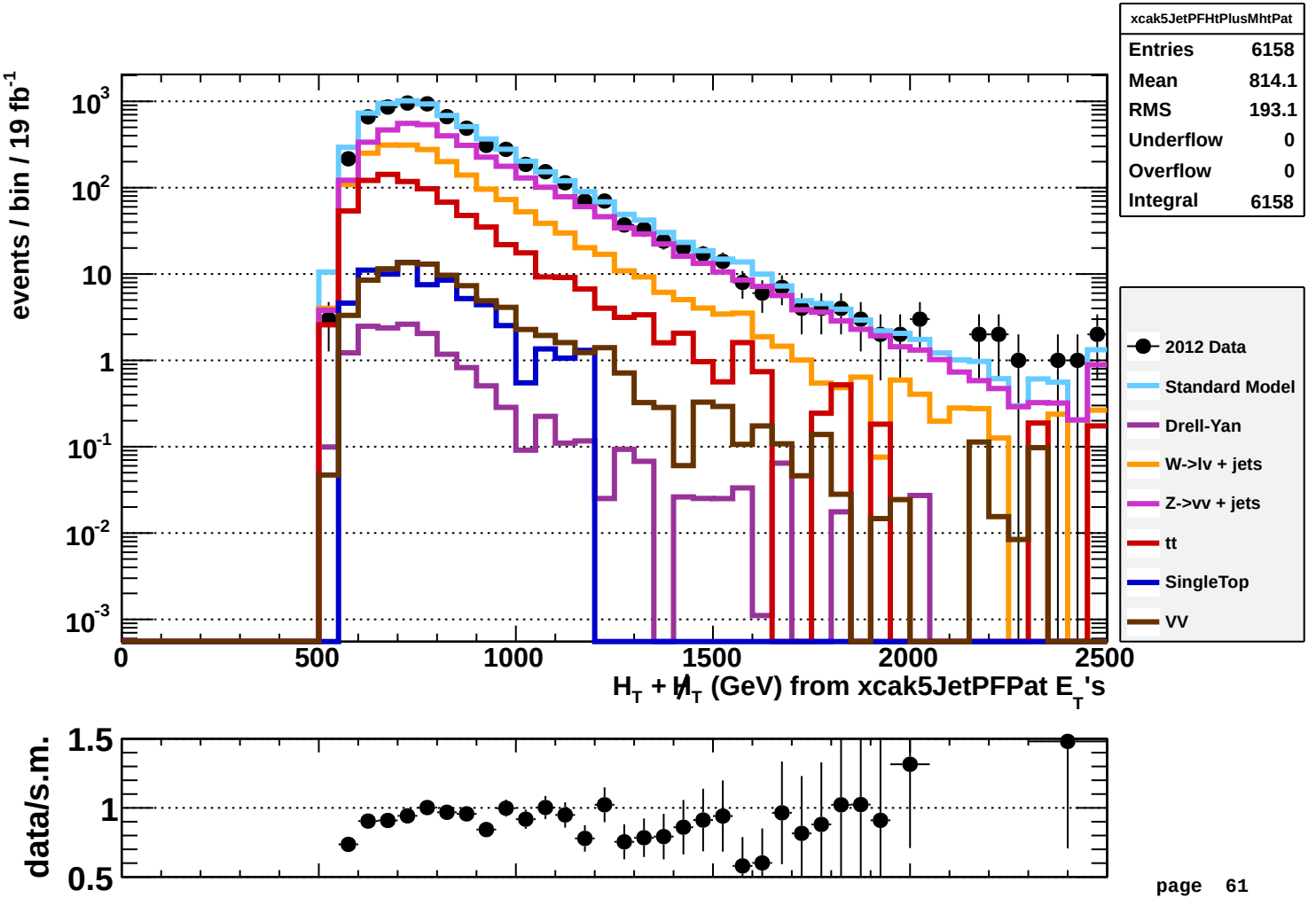
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetPFSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
u:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPF <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	PFRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetPFAlphaTEtPat
G:	value	1.00<=hcalLaserEvent2012
H:	value	1.00<=ecalLaserCalibEvent2012

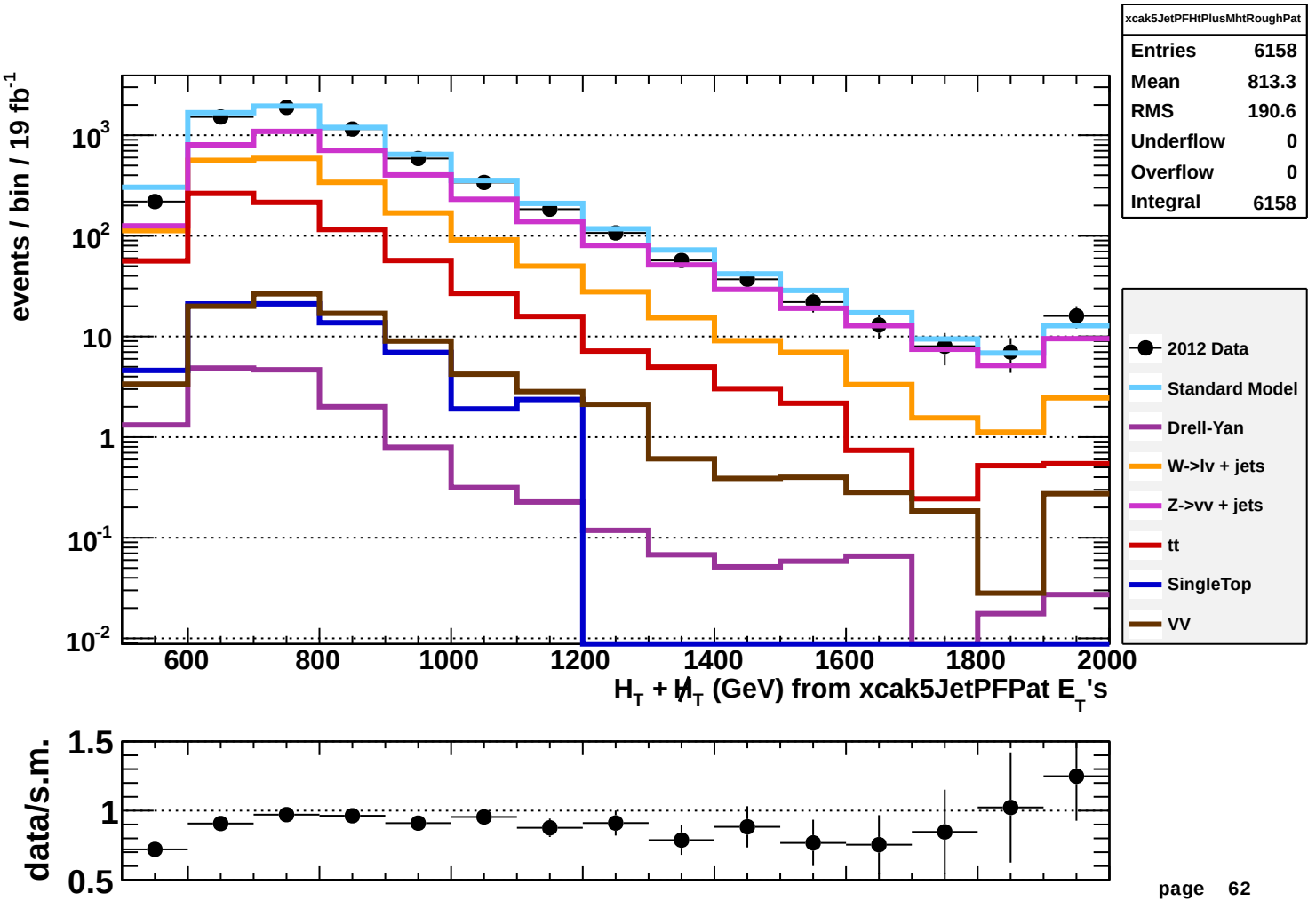
[jetSumPlots1]

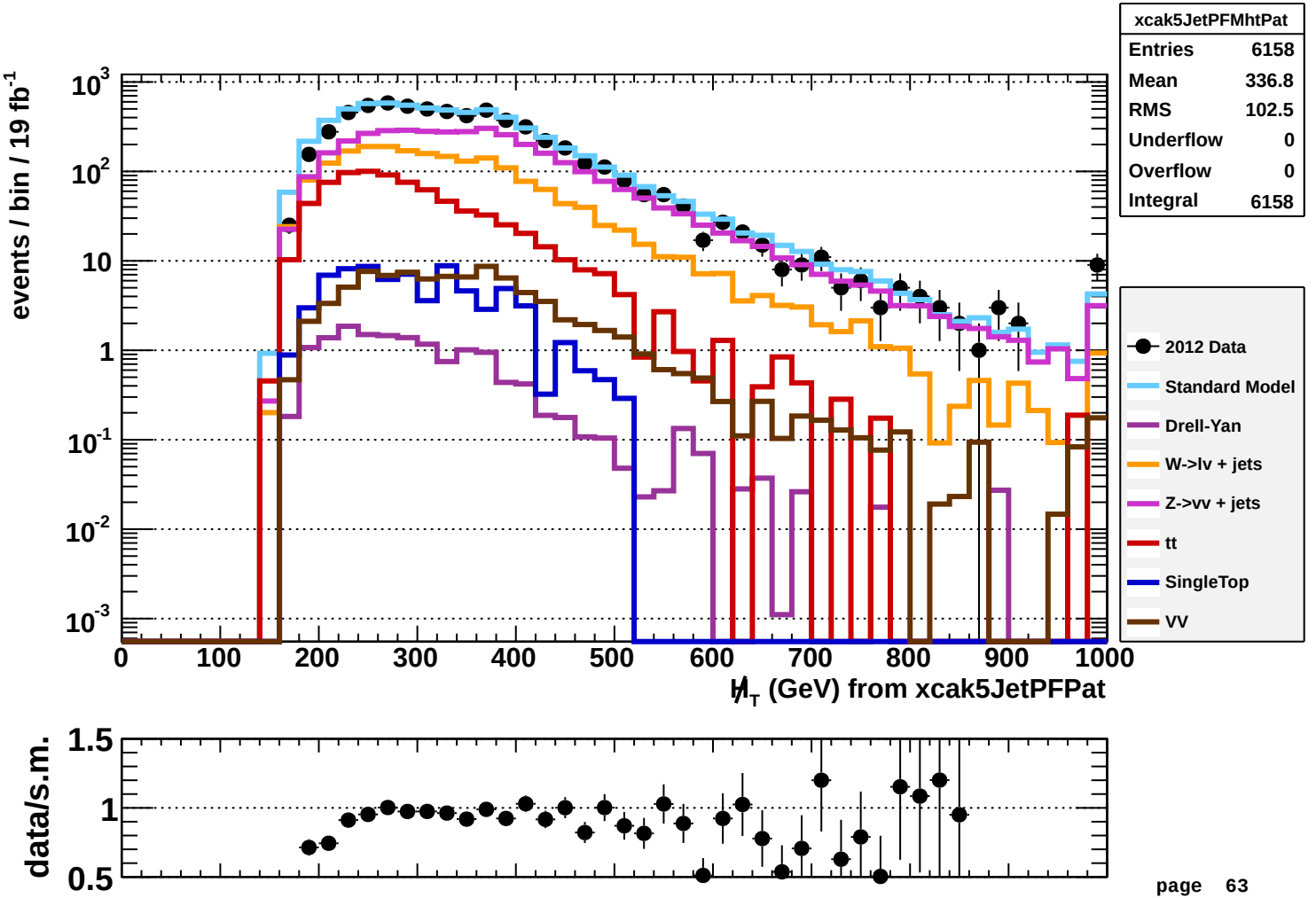
	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
r:	11661811	2.3977(9)e+6	1.139(2)e+5	9.628(7)e+5	2.281(1)e+5	8.545(4)e+5	1.807(3)e+5	5.775(8)e+4	4.864(2)
s:	10367684	1.1536(5)e+6	4.254(5)e+4	3.506(3)e+5	8.863(6)e+4	5.579(3)e+5	8.82(2)e+4	2.574(5)e+4	8.987(5)
t:	10363080	1.1516(5)e+6	4.246(5)e+4	3.503(3)e+5	8.862(6)e+4	5.564(3)e+5	8.81(2)e+4	2.572(5)e+4	8.999(5)
u:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
v:	10348024	1.1426(5)e+6	4.184(5)e+4	3.477(3)e+5	8.859(6)e+4	5.513(3)e+5	8.75(2)e+4	2.567(5)e+4	9.056(5)
w:	9836240	1.1139(5)e+6	4.069(5)e+4	3.413(3)e+5	8.741(5)e+4	5.345(3)e+5	8.48(2)e+4	2.517(5)e+4	8.831(5)
x:	9811777	9.505(4)e+5	2.563(4)e+4	2.522(2)e+5	8.739(5)e+4	4.816(3)e+5	7.96(2)e+4	2.410(5)e+4	10.323(6)
y:	9779118	9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783	7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104	7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474	7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922	2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)
D:	678926	1.404(1)e+5	1.96(1)e+3	4.752(9)e+4	3.748(4)e+4	4.228(9)e+4	8.28(6)e+3	2.84(2)e+3	4.837(8)
E:	639480	1.399(1)e+5	1.96(1)e+3	4.737(9)e+4	3.737(4)e+4	4.213(9)e+4	8.25(6)e+3	2.83(2)e+3	4.571(8)
F:	6173	6.64(2)e+3	14.6(8)	1.98(2)e+3	3.71(1)e+3	7.7(1)e+2	72(6)	87(2)	0.93(1)
G:	6173	-	-	-	-	-	-	-	
H:	6158	-	-	-	-	-	-	-	

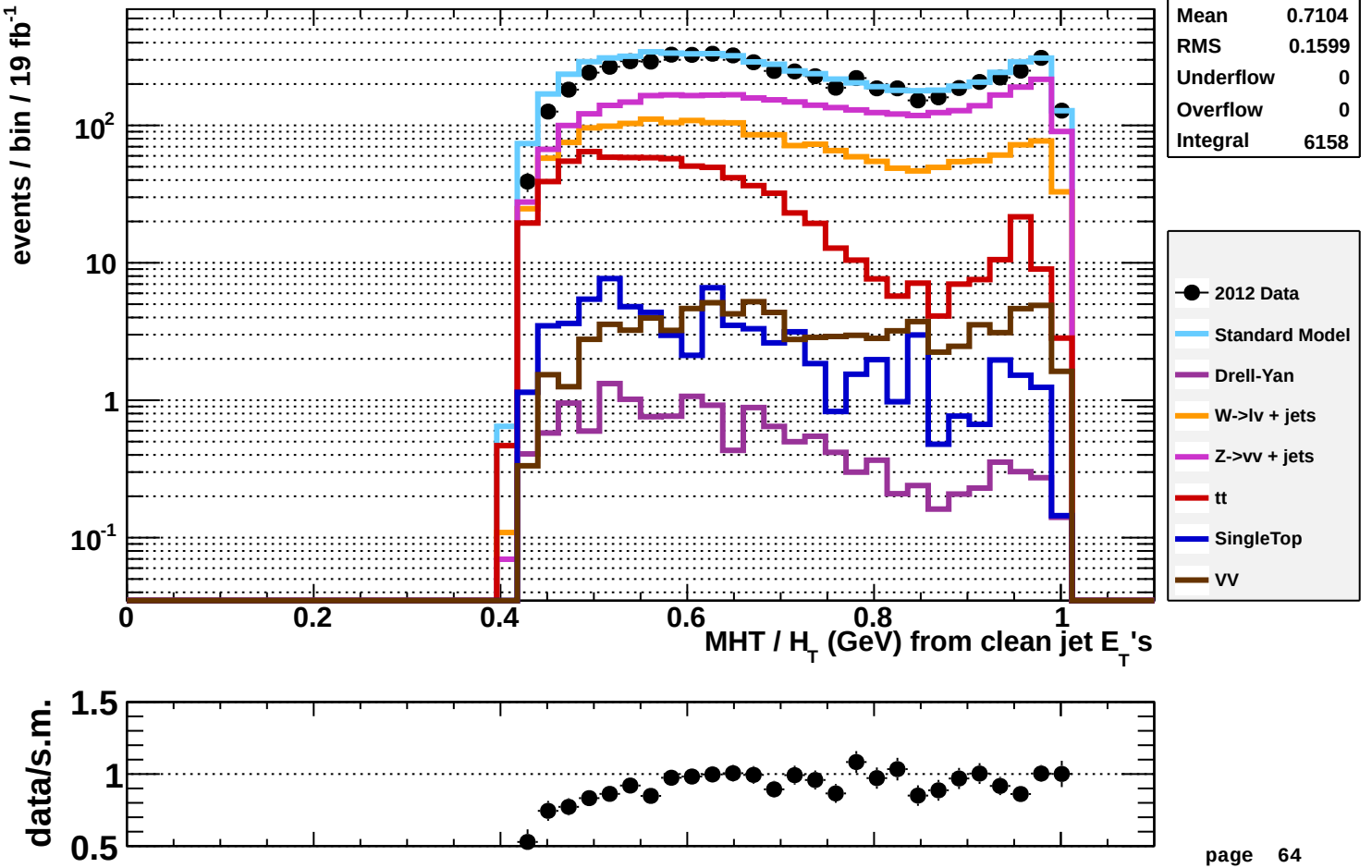
[jetSumPlots1]

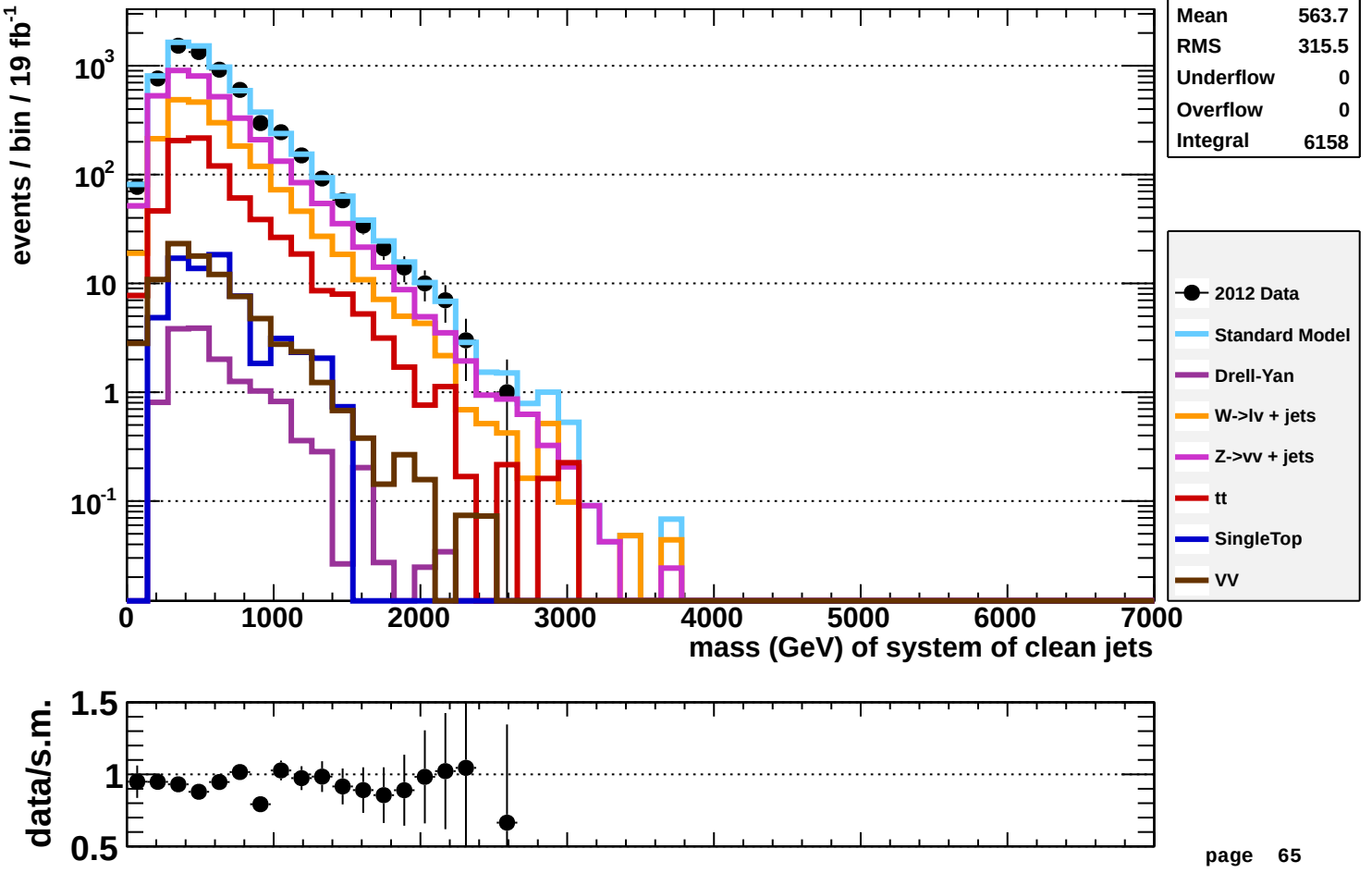

xcak5JetPFHtPat
Entries 6158
Mean 477.1
RMS 109.3
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.


xcak5JetPFHtPlusMhtPat
Entries 6158
Mean 814.1
RMS 193.1
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lν + jets
Z->νν + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M/_T (GeV) from xcak5JetPFPat E_T's
data/s.m.

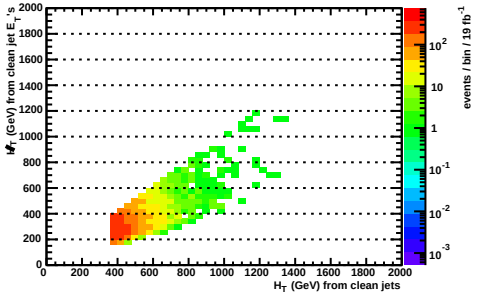

xcak5JetPFHtPlusMhtRoughPat
Entries 6158
Mean 813.3
RMS 190.6
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M/_T (GeV) from xcak5JetPFPat E_T's
data/s.m.


xcak5JetPFMhtPat
Entries 6158
Mean 336.8
RMS 102.5
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat
data/s.m.

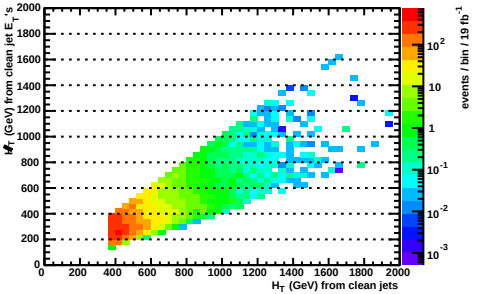

xcak5JetPFmHtOverHtPat
Entries 6158
Mean 0.7104
RMS 0.1599
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT / HT (GeV) from clean jet ET's
data/s.m.


xcak5JetPFmPat
Entries 6158
Mean 563.7
RMS 315.5
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
mass (GeV) of system of clean jets
data/s.m.

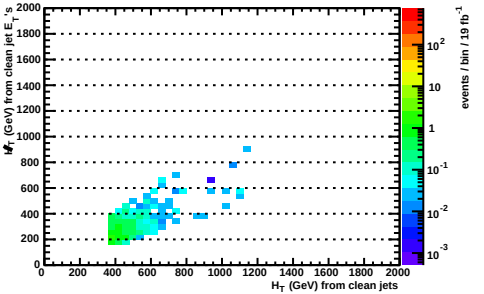
2012 Data



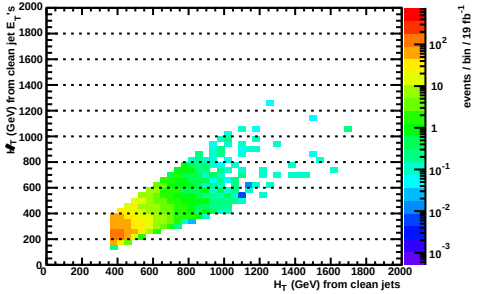
Standard Model



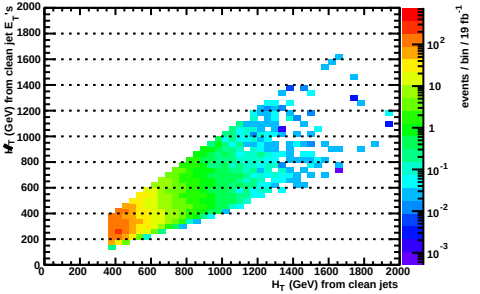
Drell-Yan



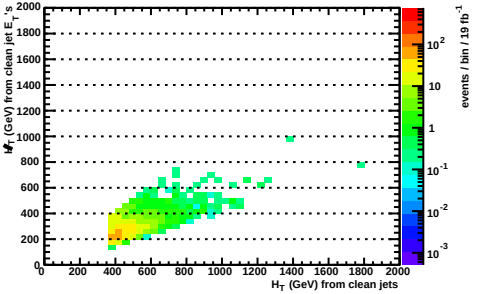
W->lv + jets



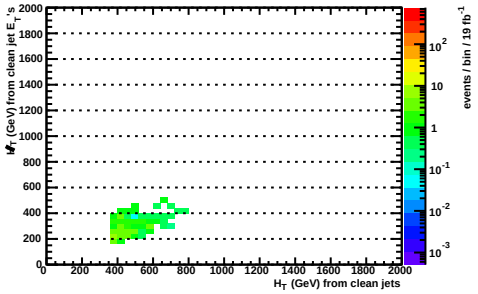
Z->vv + jets



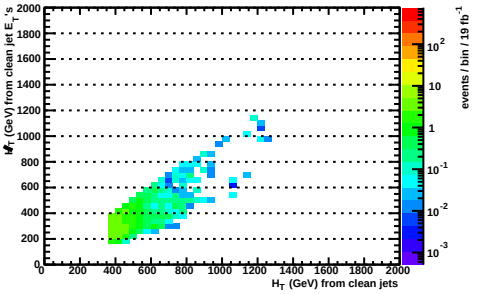
tt

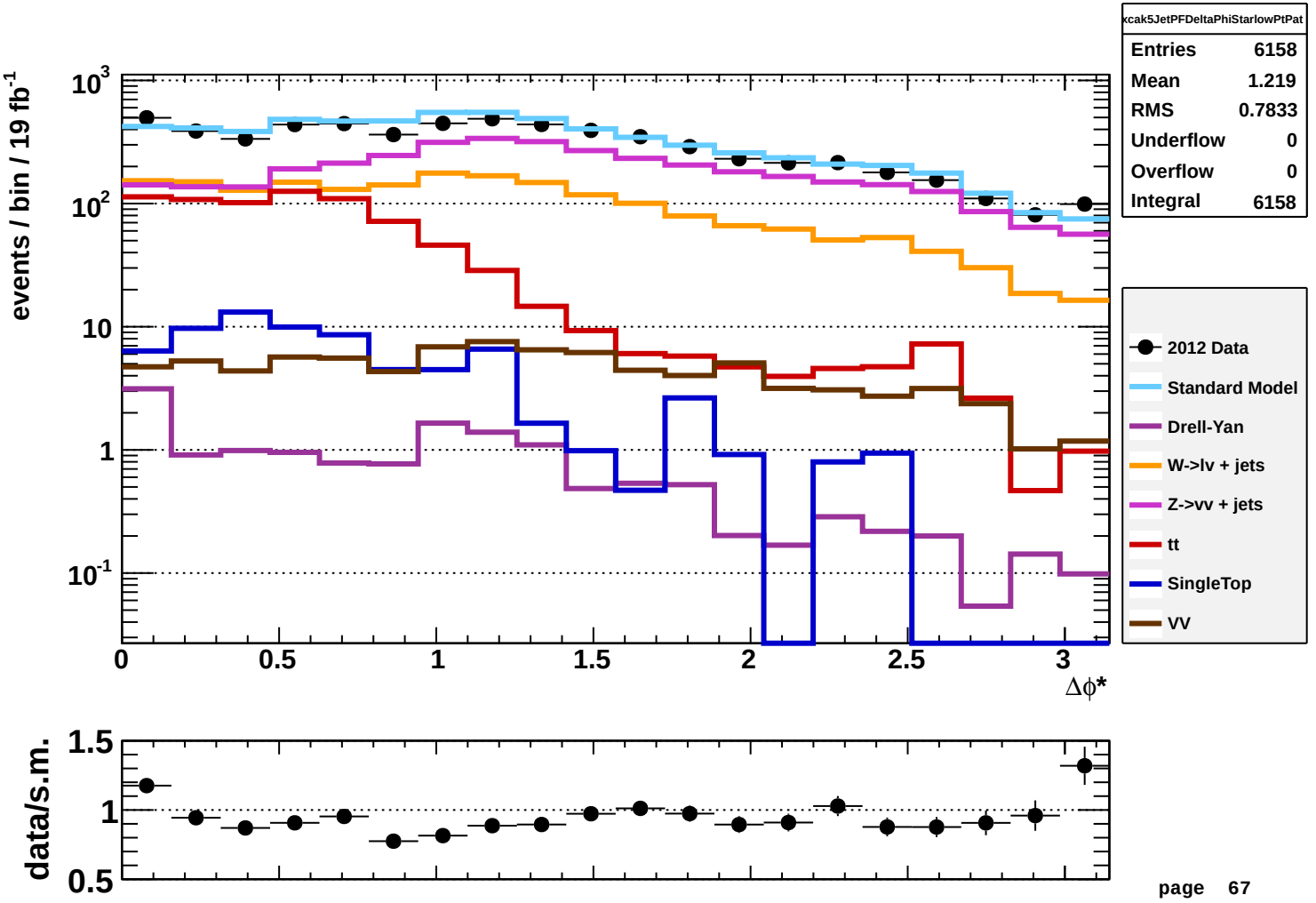


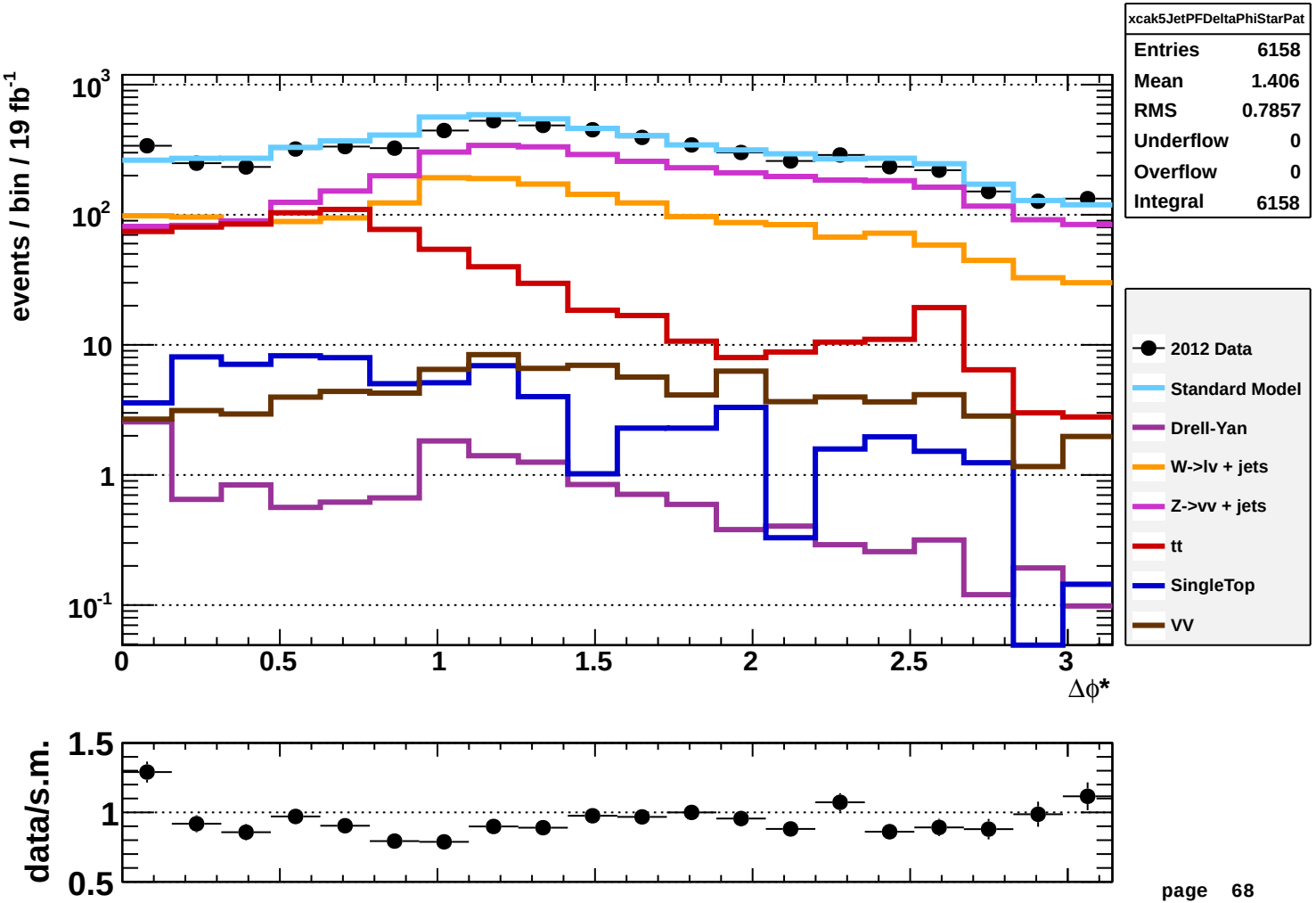
SingleTop

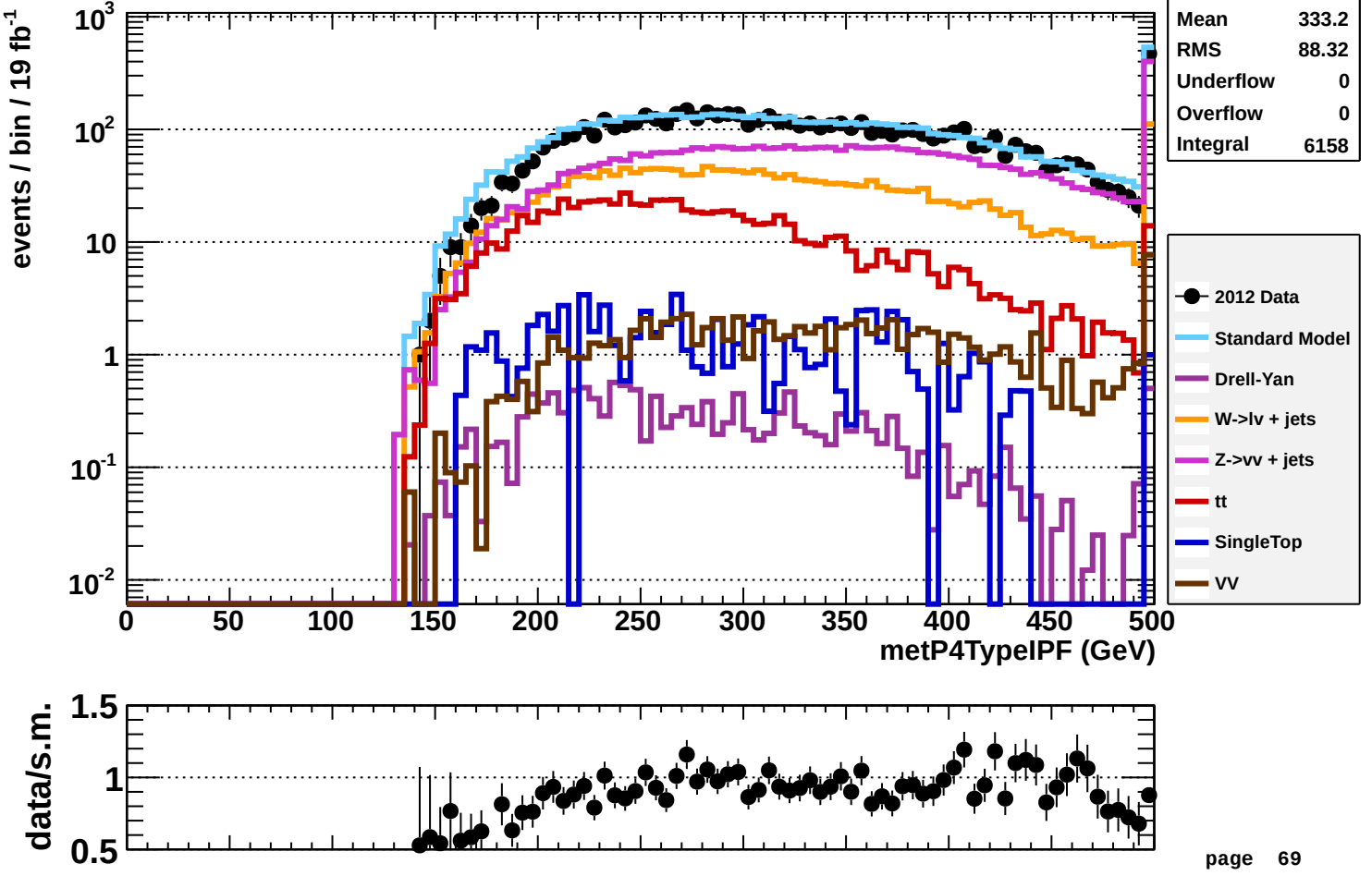


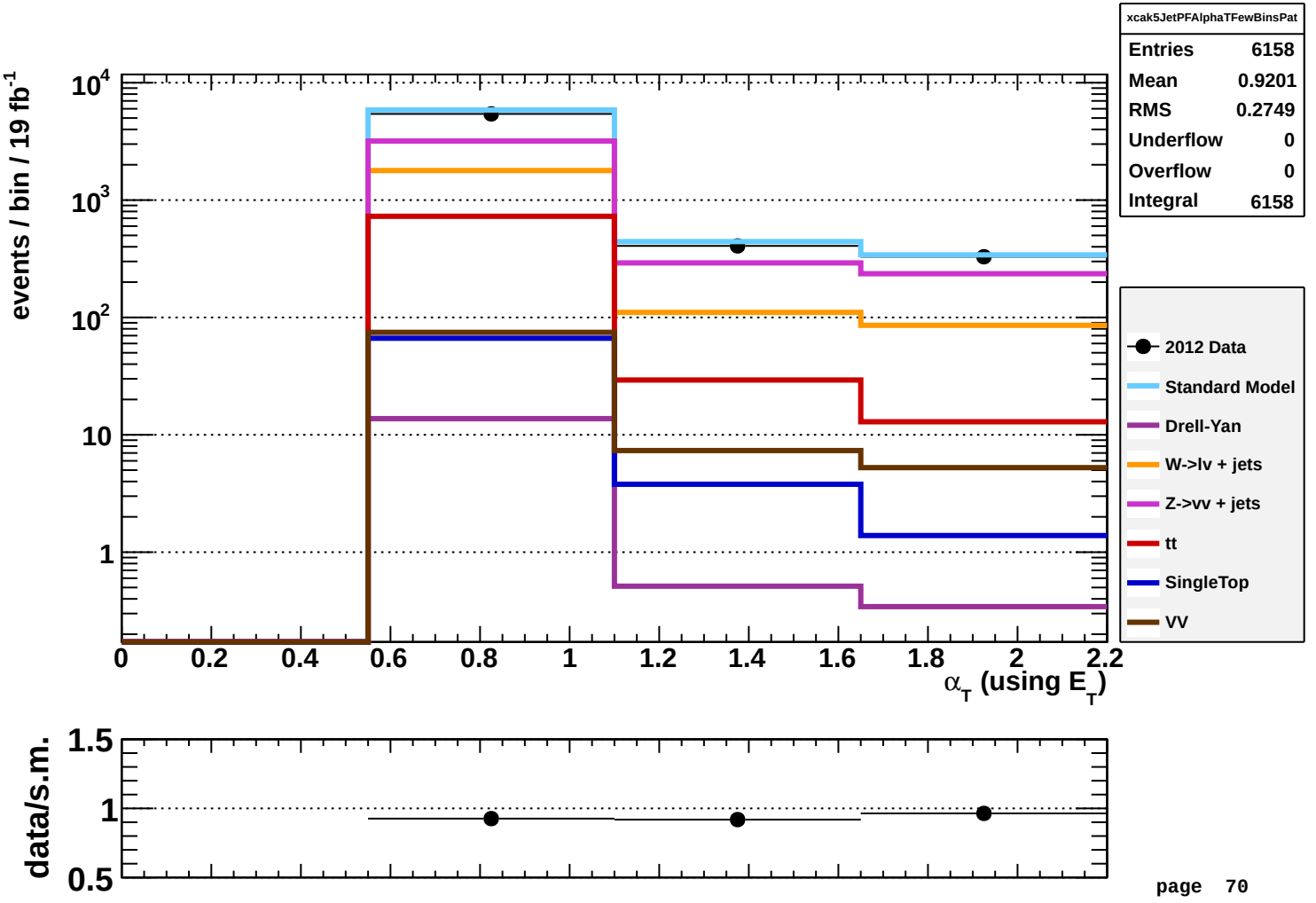
VV

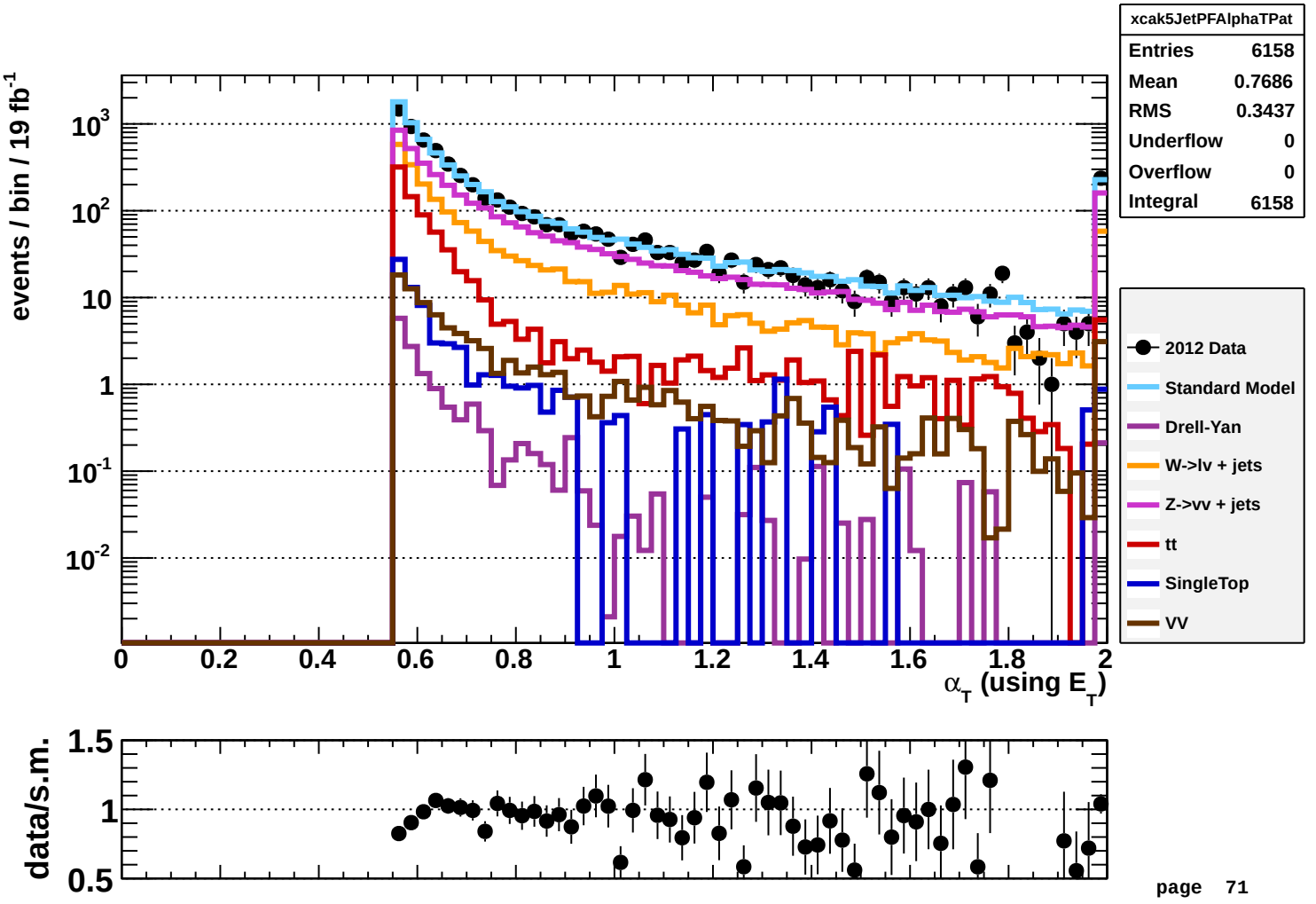


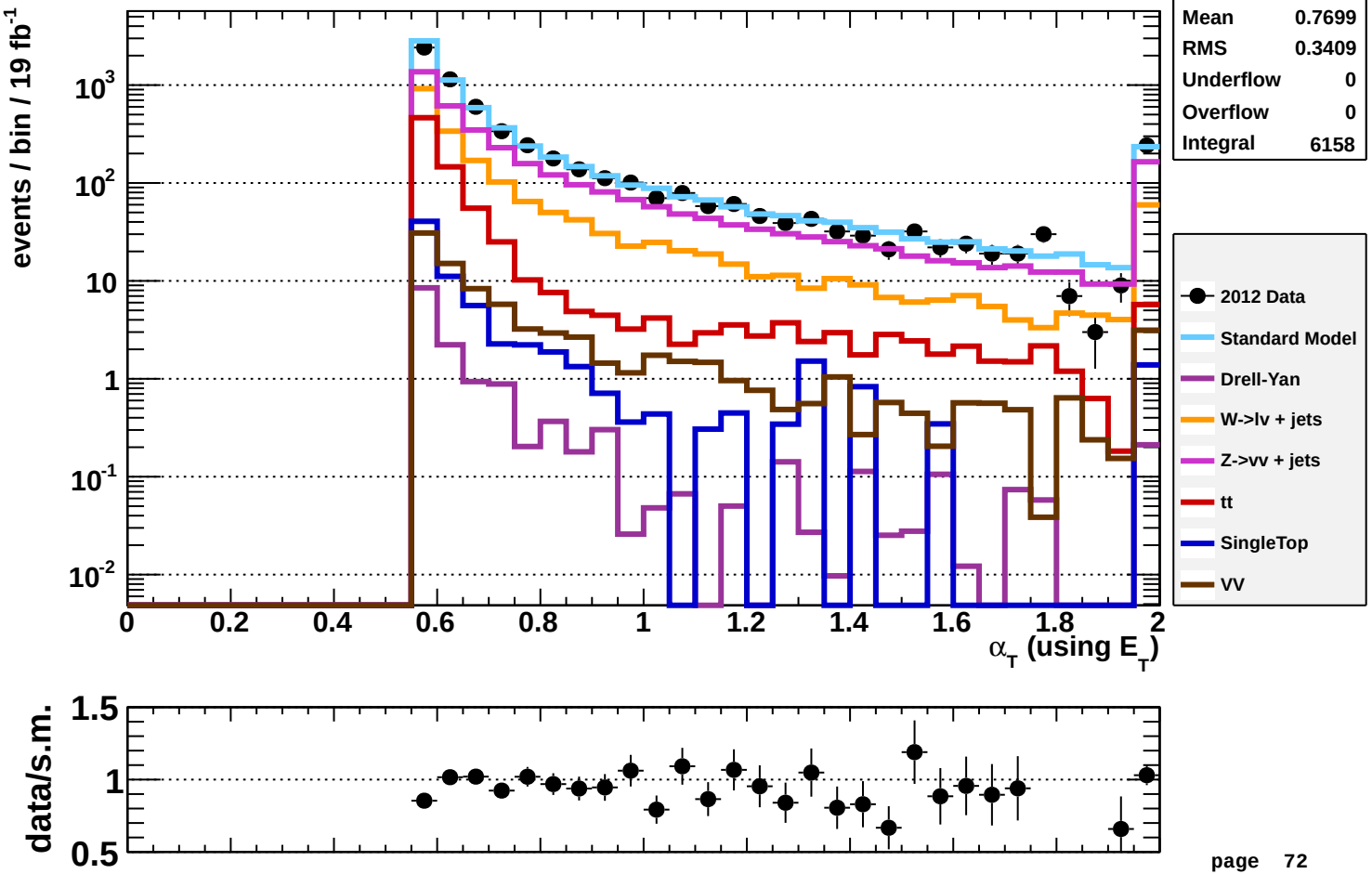

xcak5JetPFDeltaPhiStarlowPtPat
Entries 6158
Mean 1.219
RMS 0.7833
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δϕ*
data/s.m.

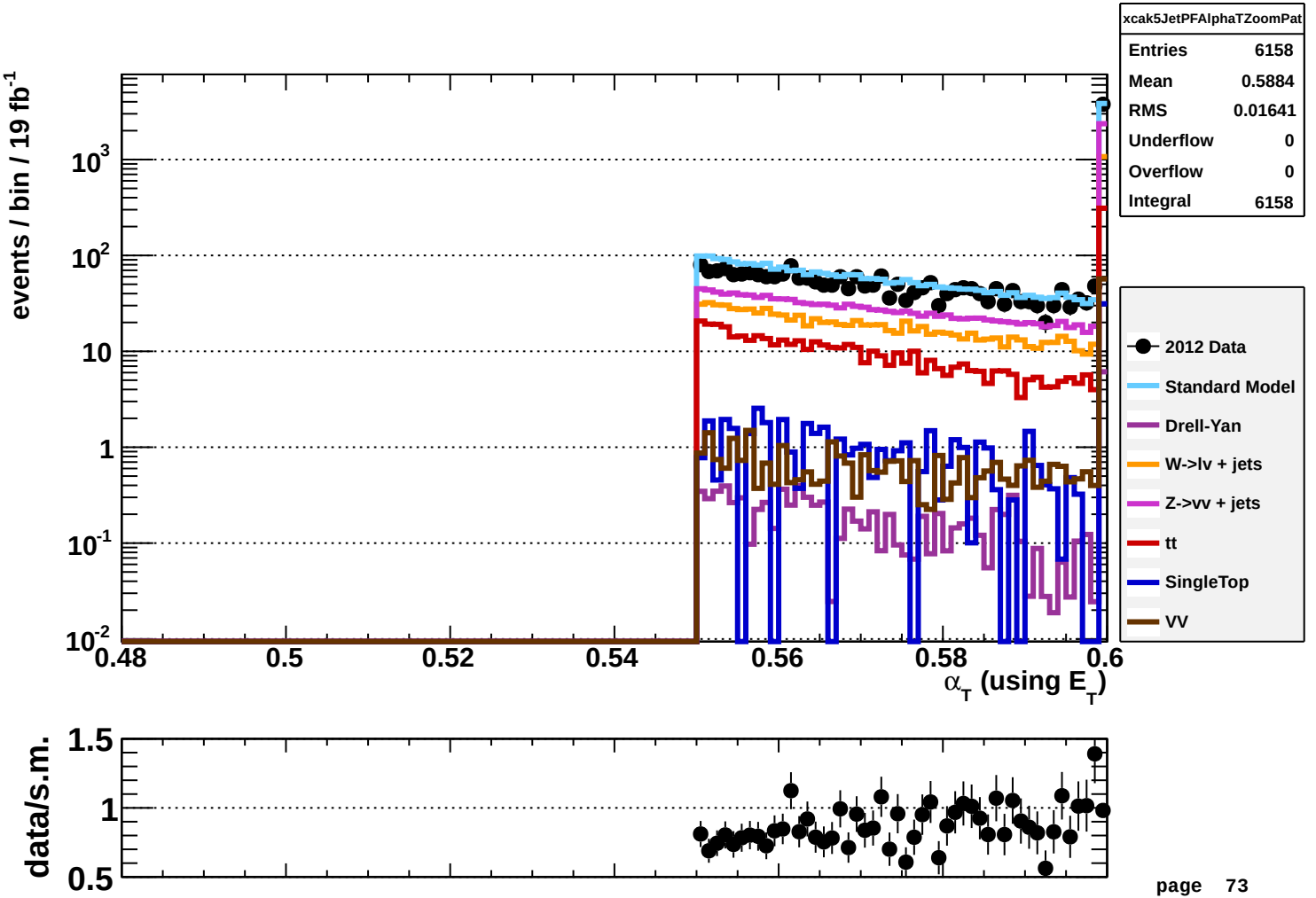

xcak5JetPFDeltaPhiStarPat
Entries 6158
Mean 1.406
RMS 0.7857
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δϕ*
data/s.m.

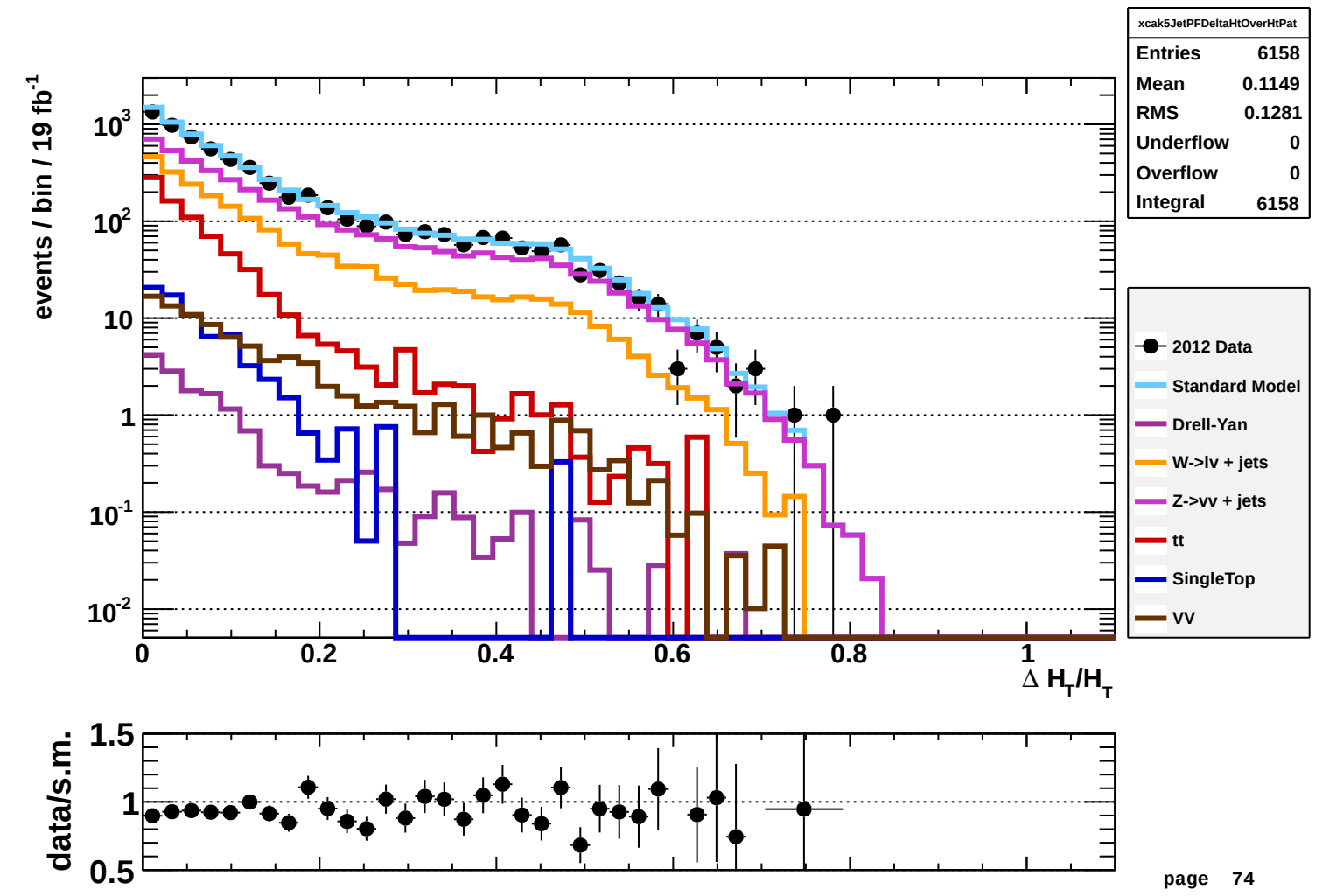

metP4TypeIPF
Entries 6158
Mean 333.2
RMS 88.32
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
metP4TypeIPF (GeV)
data/s.m.

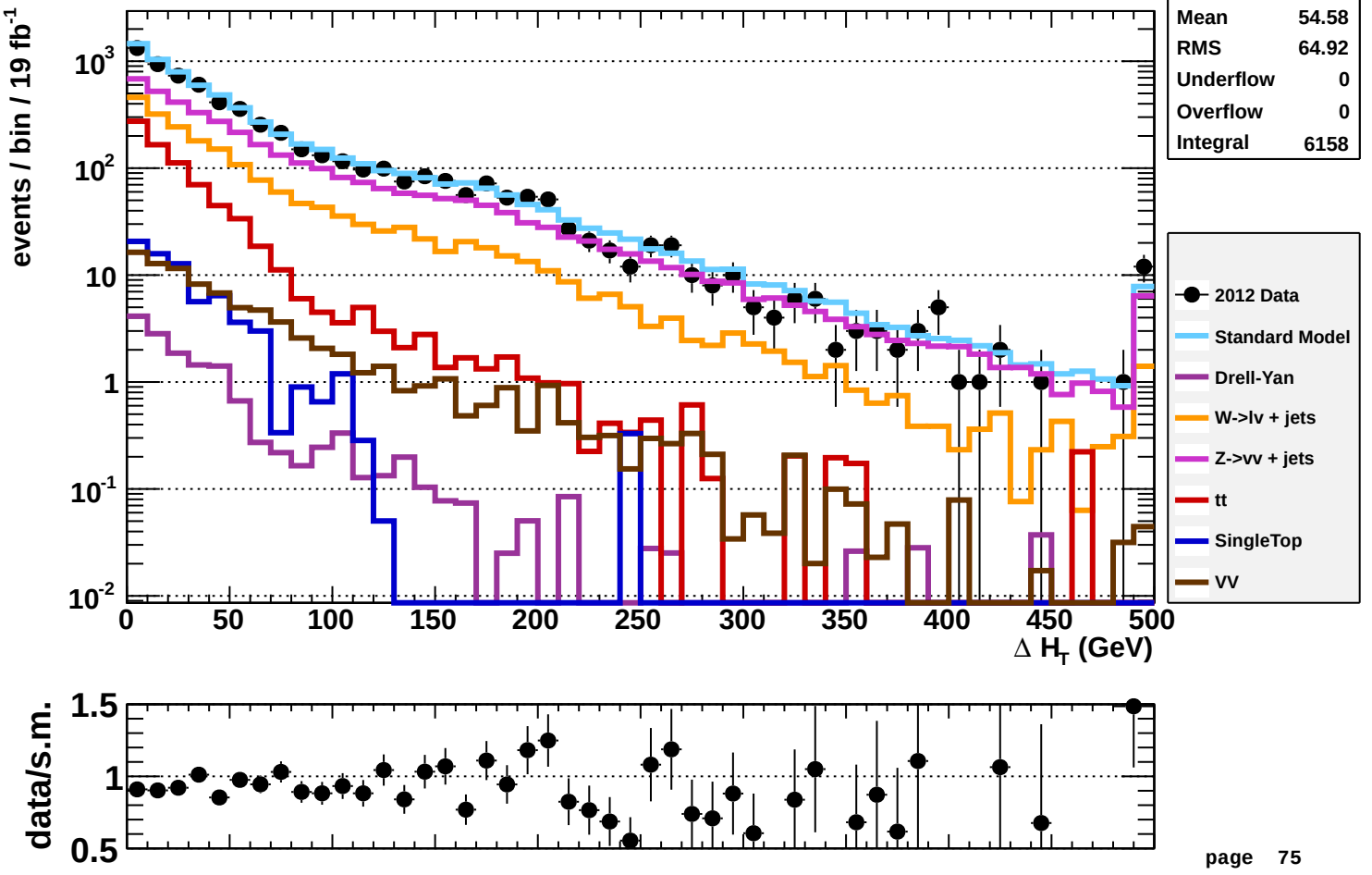

xcak5JetPFAlphaTFewBinsPat
Entries 6158
Mean 0.9201
RMS 0.2749
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
αT (using ET)
data/s.m.
1.5
1
0.5


xcak5JetPFAlphaTPat
Entries 6158
Mean 0.7686
RMS 0.3437
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.

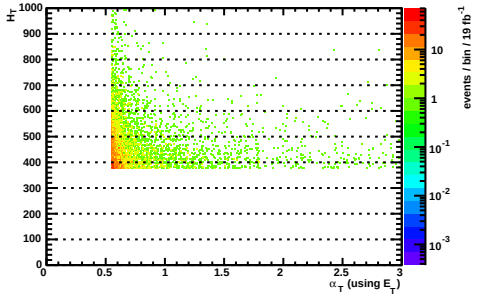

xcak5JetPFAlphaTRoughPat
Entries 6158
Mean 0.7699
RMS 0.3409
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetPFAlphaTZoomPat
Entries 6158
Mean 0.5884
RMS 0.01641
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^3
10^2
10
1
10^-1
10^-2
0.48
0.5
0.52
0.54
0.56
0.58
0.6
αT (using ET)
data/s.m.
1.5
1
0.5

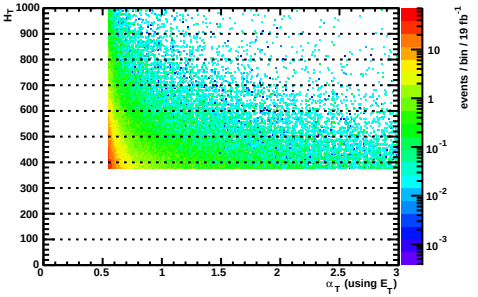

xcak5JetPFDeltaHtOverHtPat
Entries 6158
Mean 0.1149
RMS 0.1281
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT/HT
data/s.m.


xcak5JetPFDeltaHtPat
Entries 6158
Mean 54.58
RMS 64.92
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT (GeV)
data/s.m.

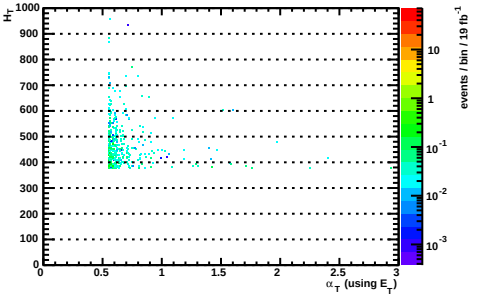
2012 Data



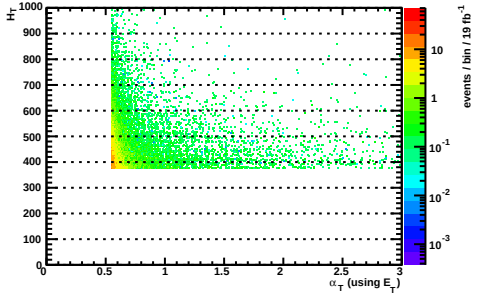
Standard Model



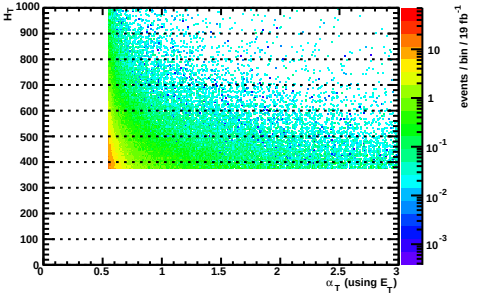
Drell-Yan



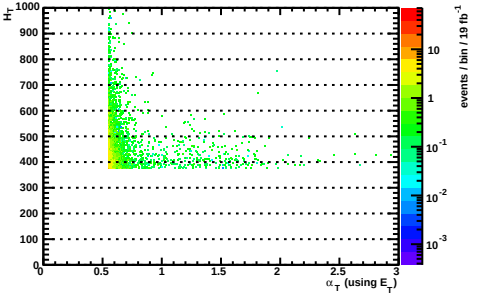
W->lv + jets



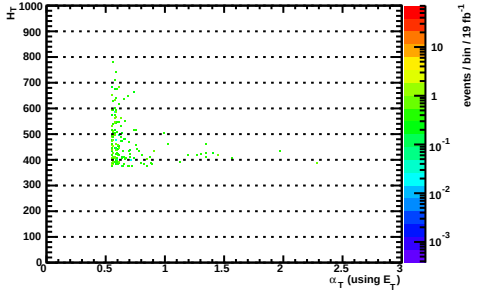
Z->vv + jets



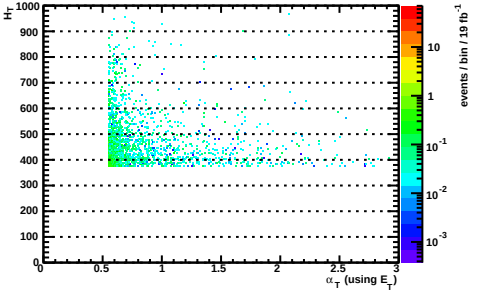
tt



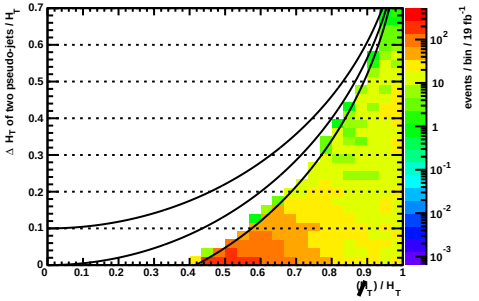
SingleTop



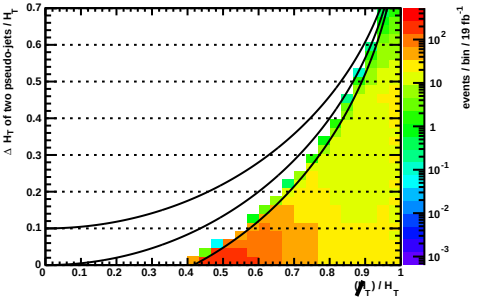
VV



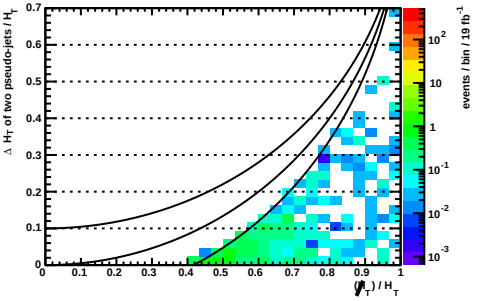
2012 Data



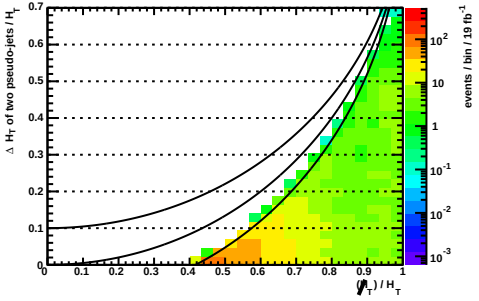
Standard Model



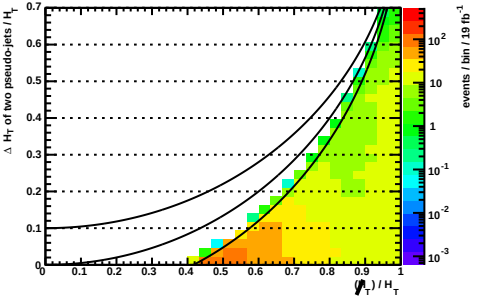
Drell-Yan



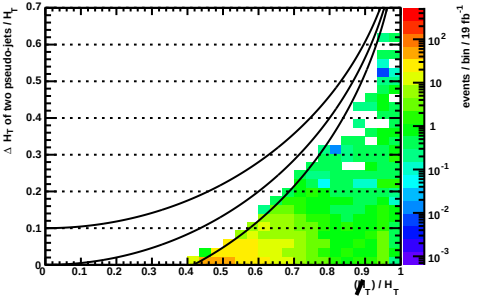
W->lv + jets



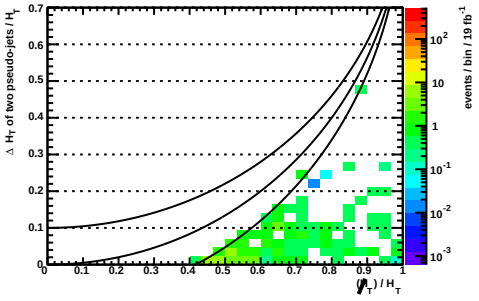
Z->vv + jets



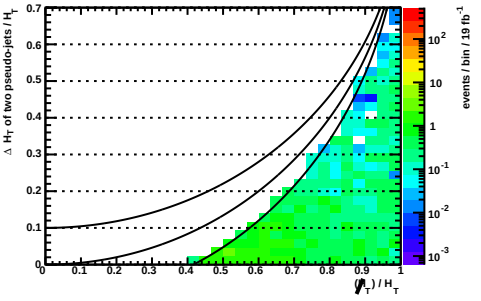
tt



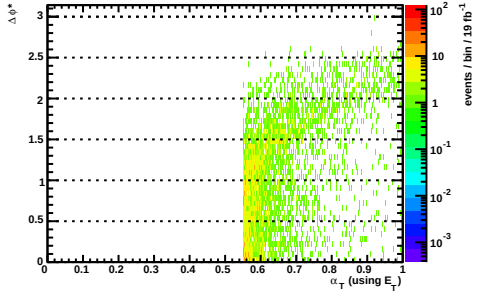
SingleTop



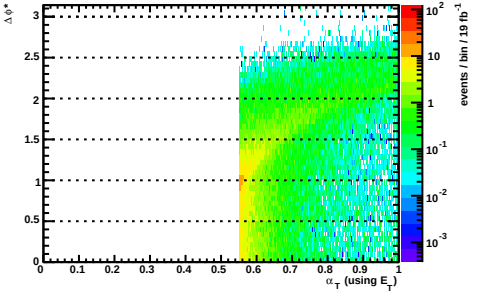
VV



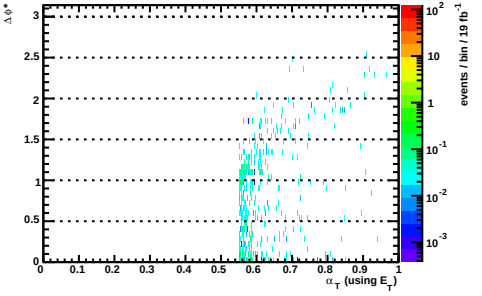
2012 Data



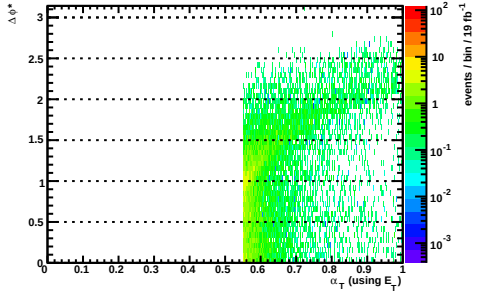
Standard Model



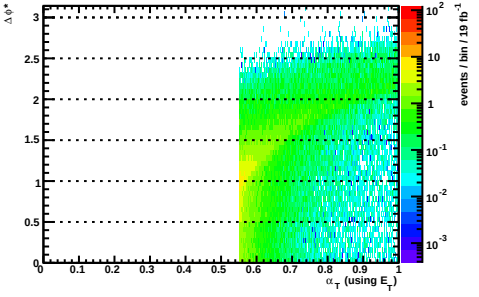
Drell-Yan



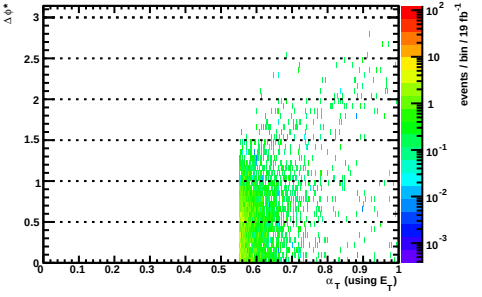
W->lv + jets



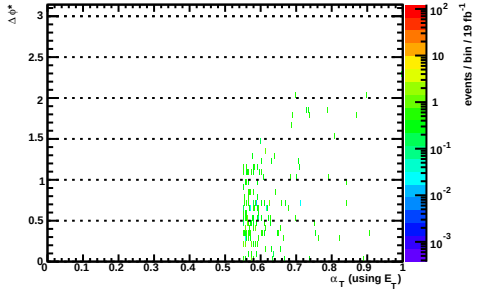
Z->vv + jets



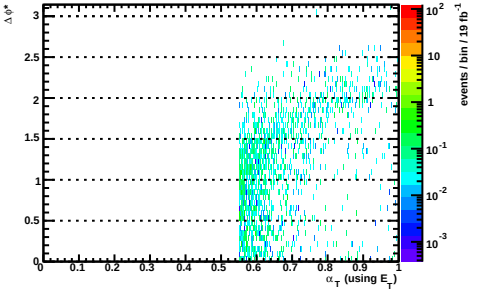
tt

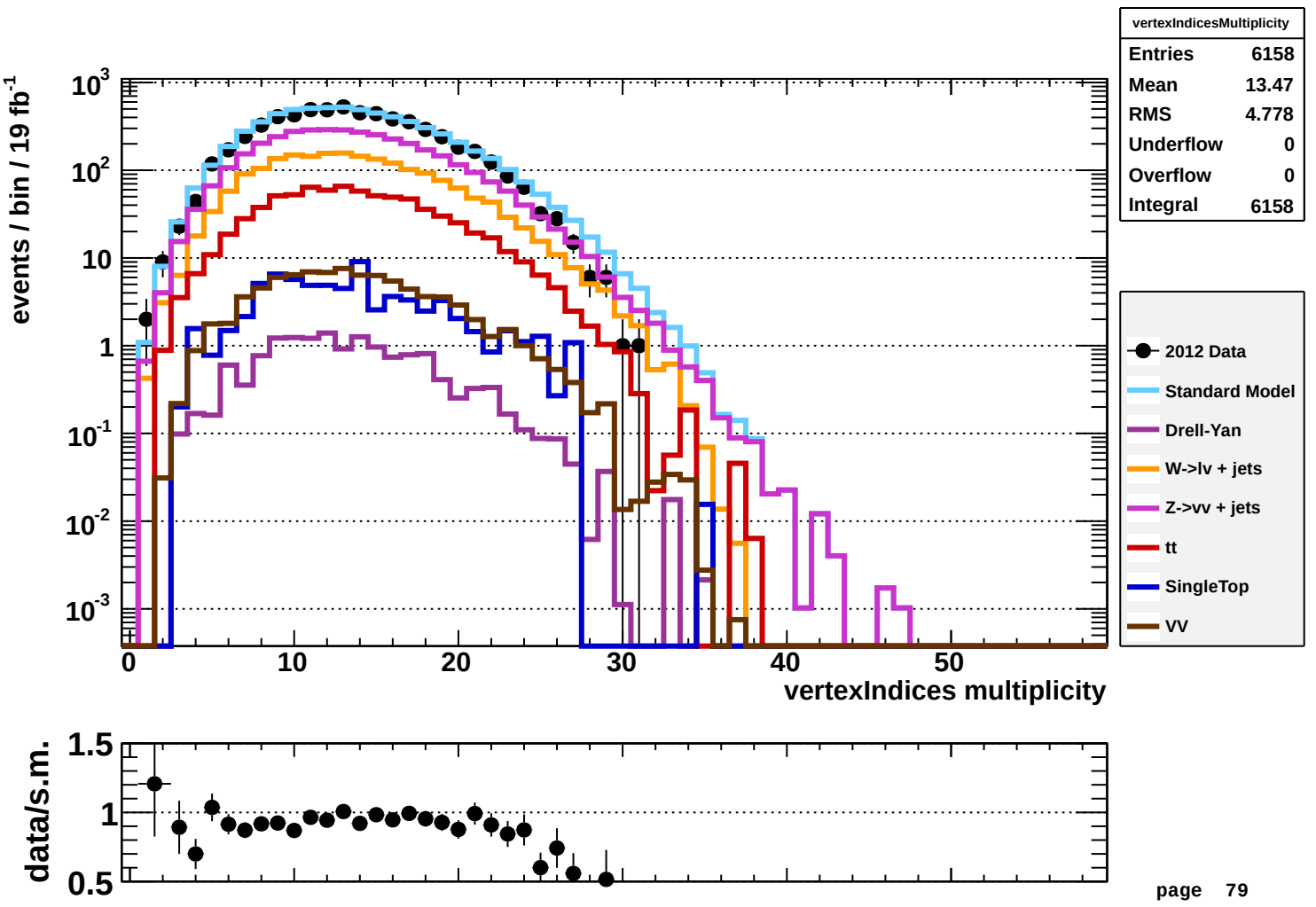


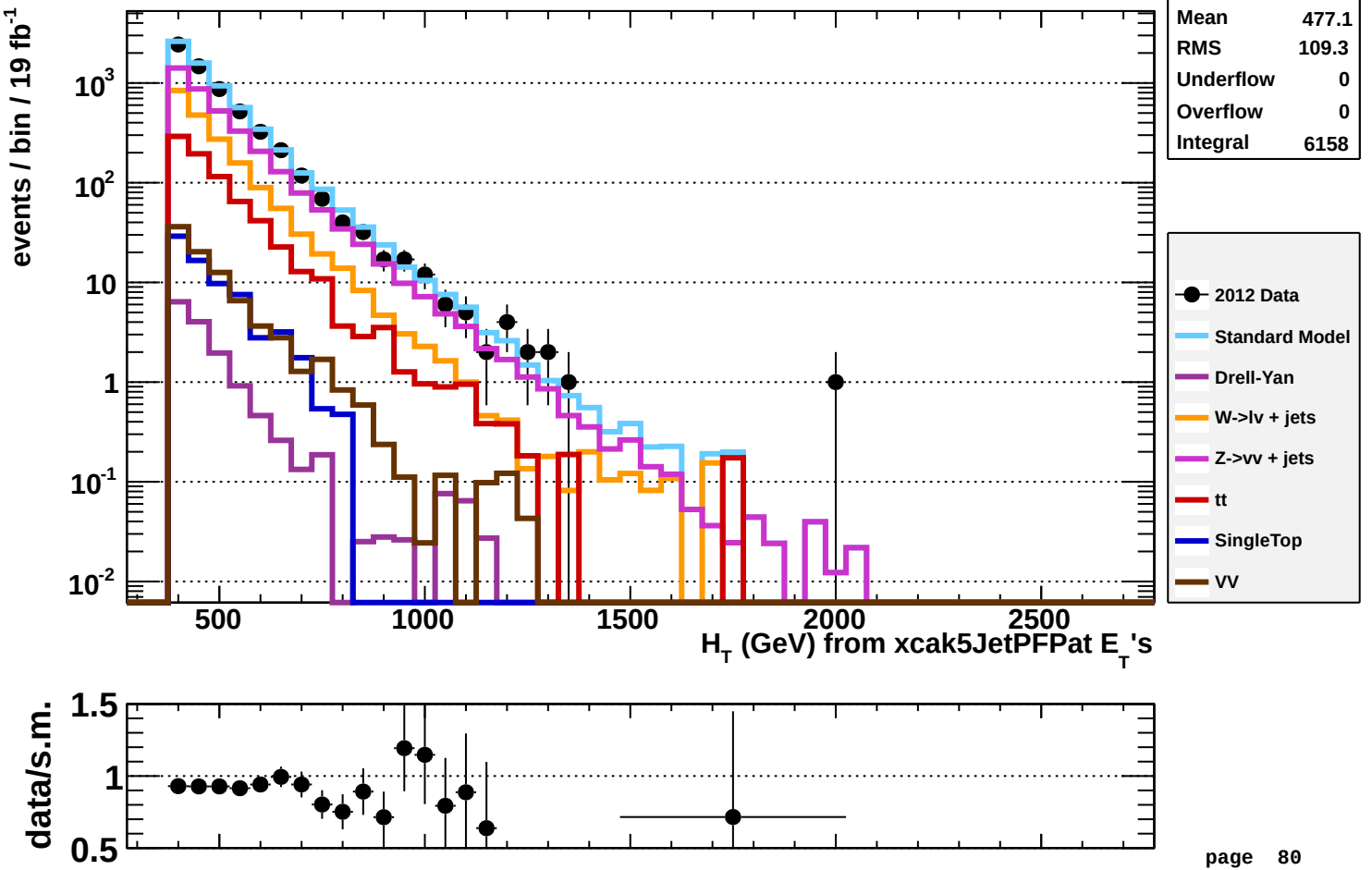
SingleTop

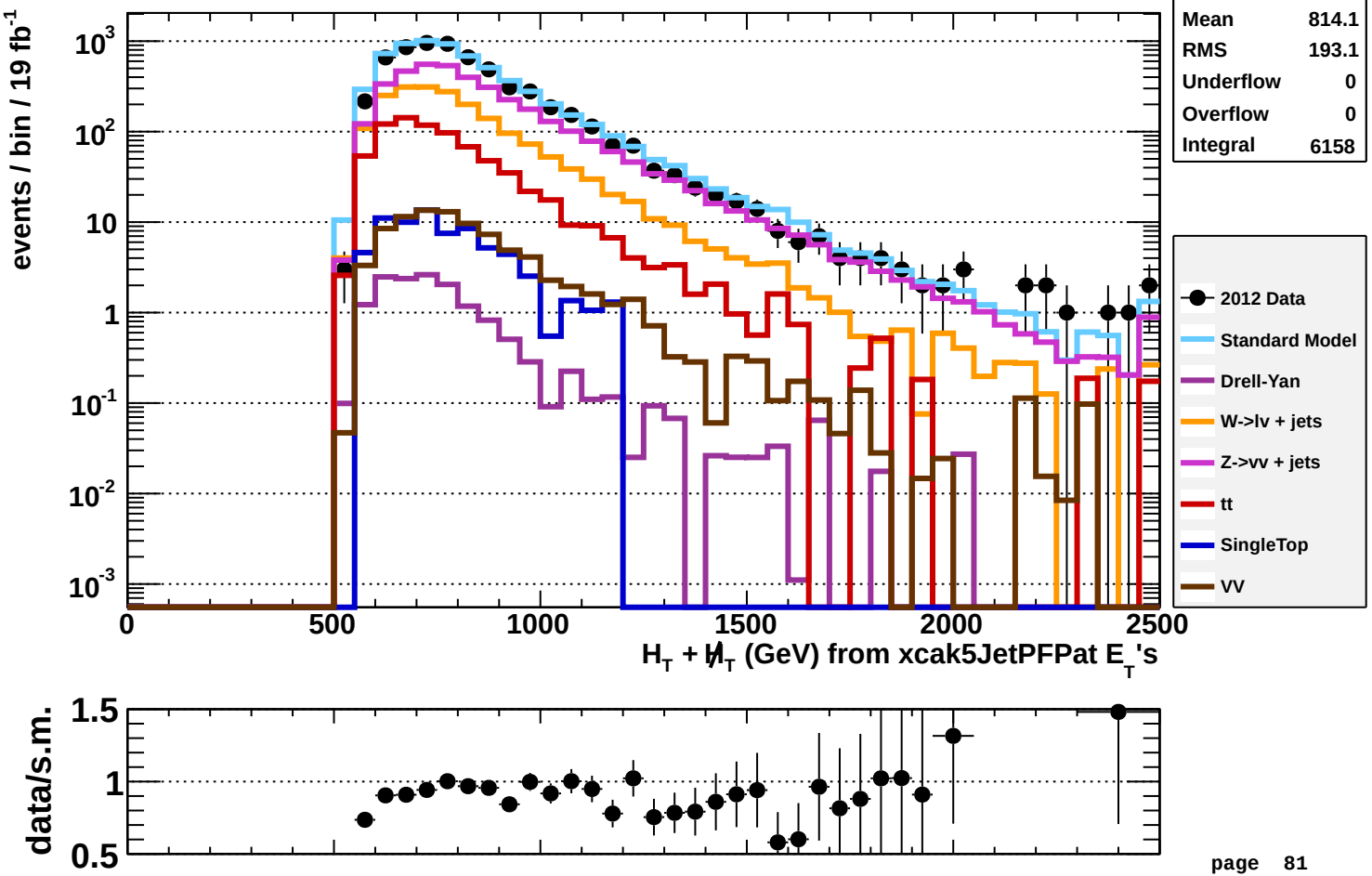


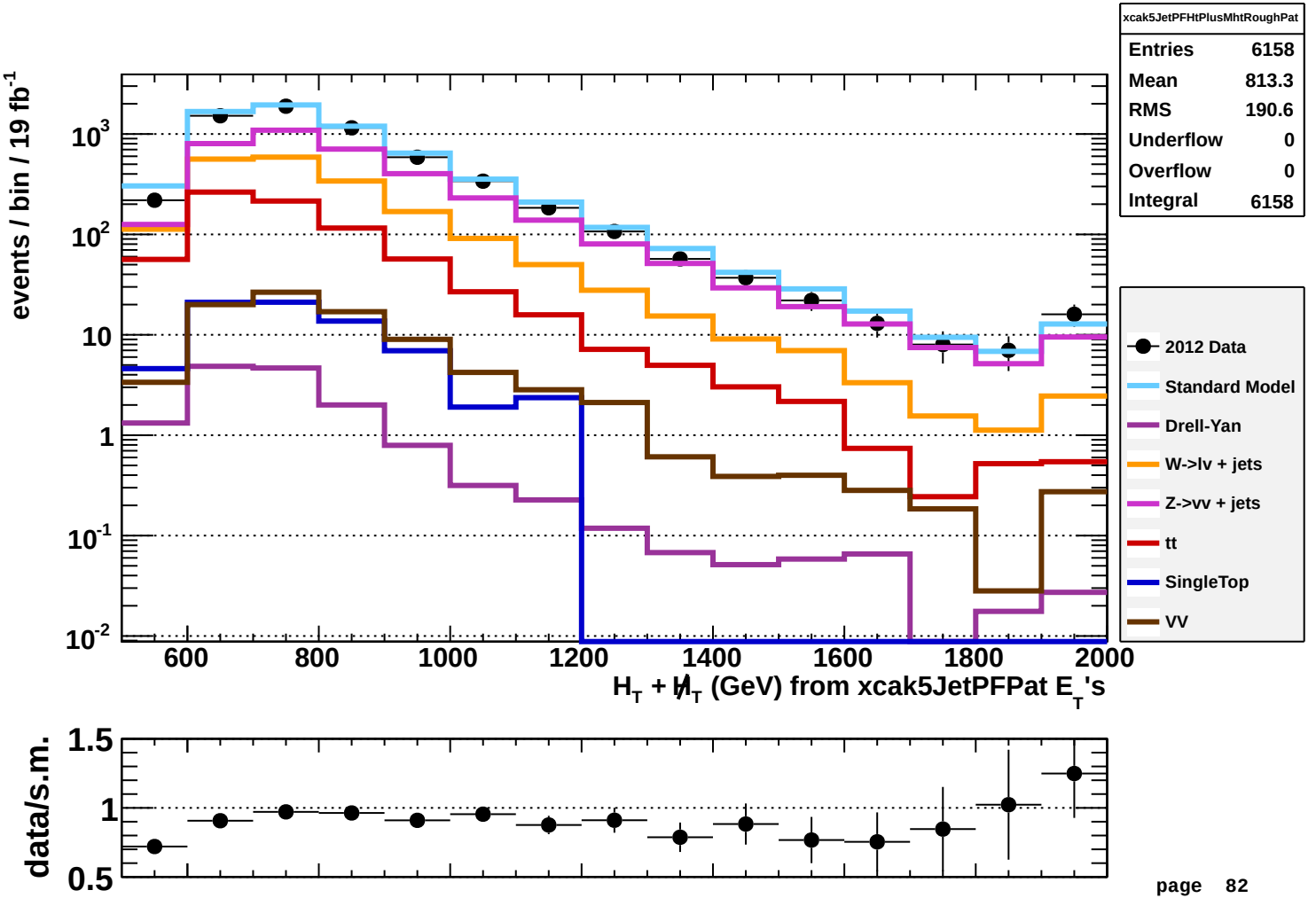
VV

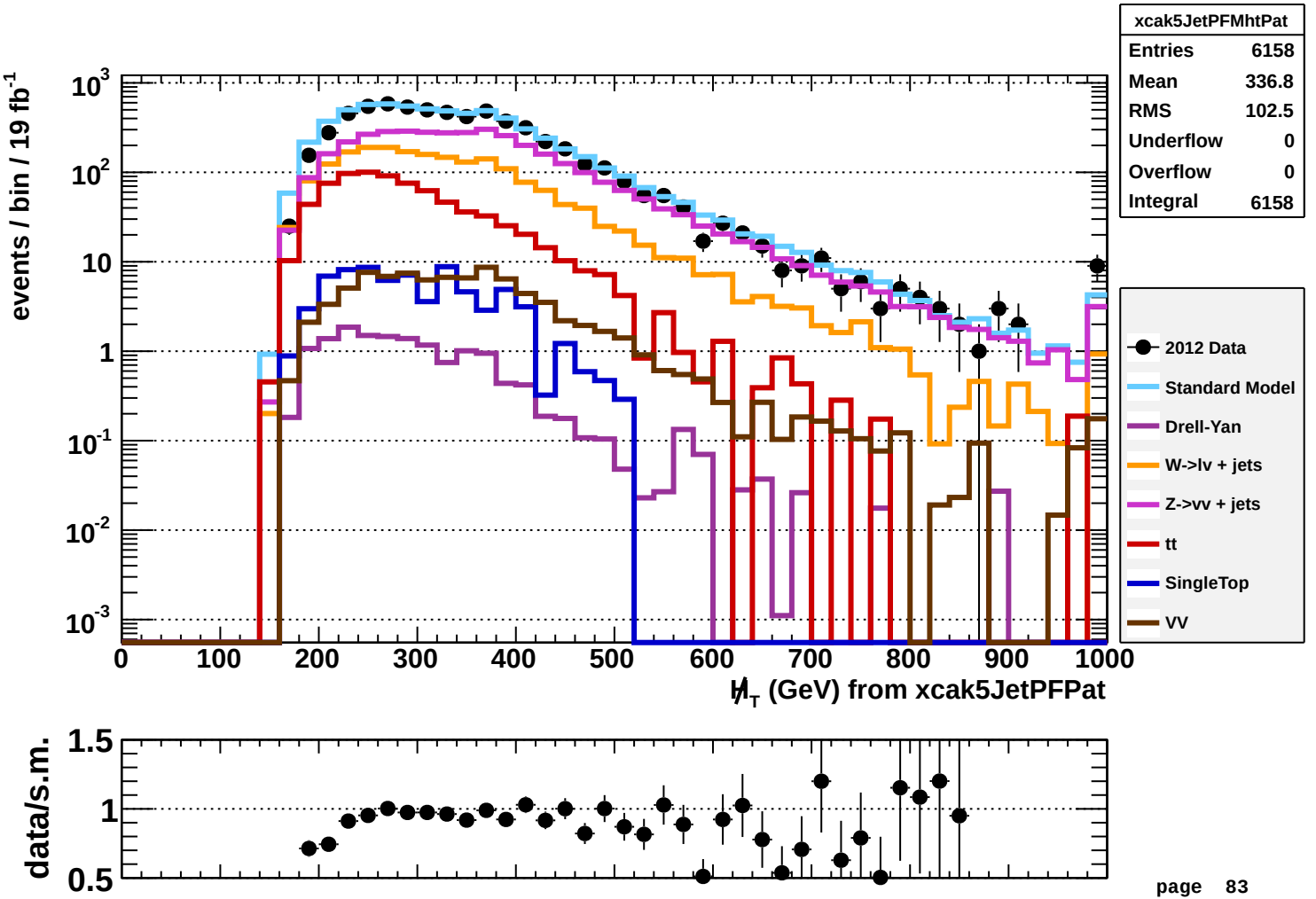


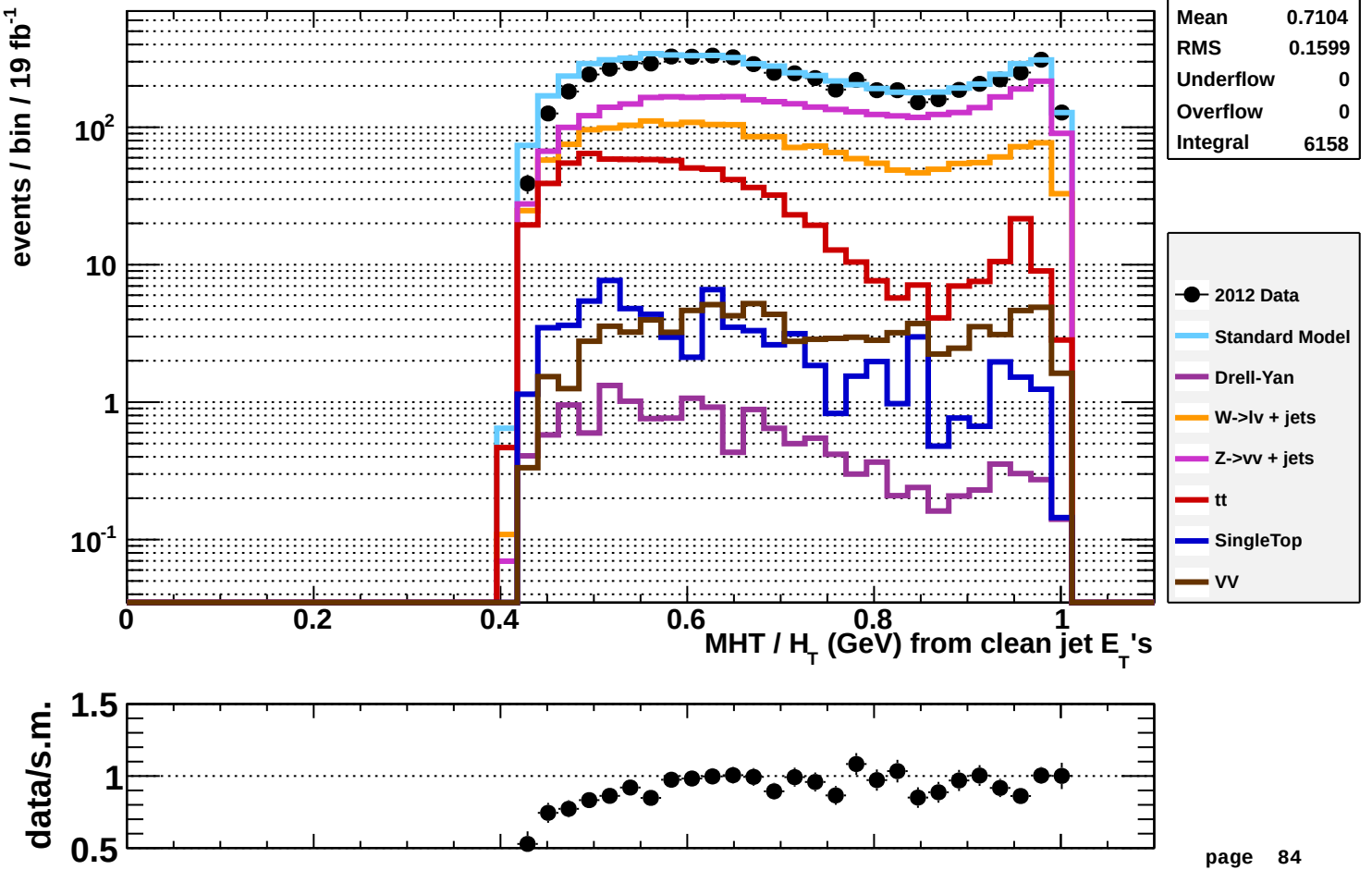

vertexIndicesMultiplicity
Entries 6158
Mean 13.47
RMS 4.778
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
vertexIndices multiplicity
data/s.m.

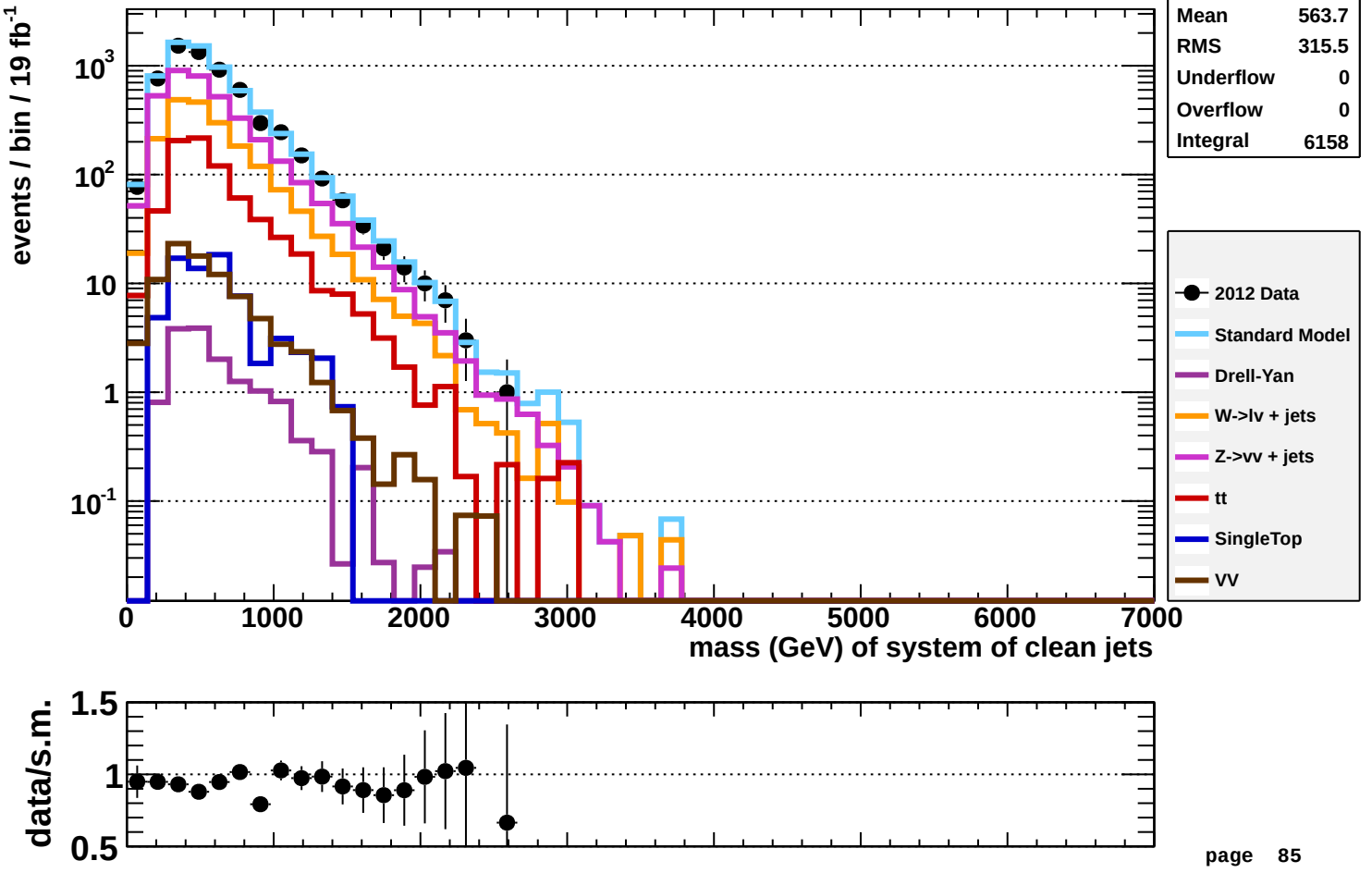

xcak5JetPFHtPat
Entries 6158
Mean 477.1
RMS 109.3
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.


xcak5JetPFHtPlusMhtPat
Entries 6158
Mean 814.1
RMS 193.1
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M/_T (GeV) from xcak5JetPFPat E_T's
data/s.m.

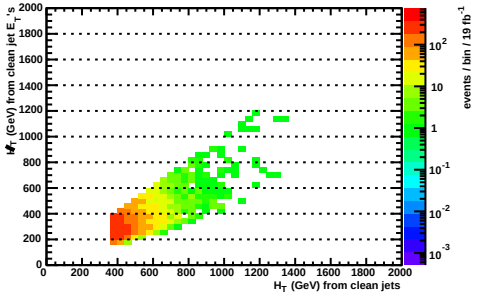

xcak5JetPFHtPlusMhtRoughPat
Entries 6158
Mean 813.3
RMS 190.6
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + M̸_T (GeV) from xcak5JetPFPat E_T's
data/s.m.


xcak5JetPFMhtPat
Entries 6158
Mean 336.8
RMS 102.5
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat
data/s.m.

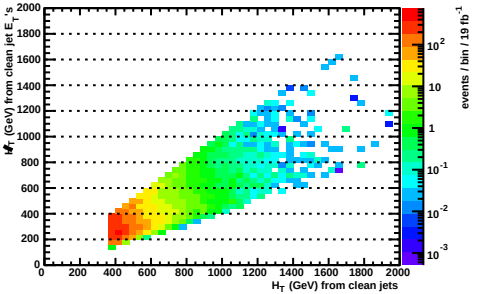

xcak5JetPFmHtOverHtPat
Entries 6158
Mean 0.7104
RMS 0.1599
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT / HT (GeV) from clean jet ET's
data/s.m.


xcak5JetPFmPat
Entries 6158
Mean 563.7
RMS 315.5
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
mass (GeV) of system of clean jets
data/s.m.

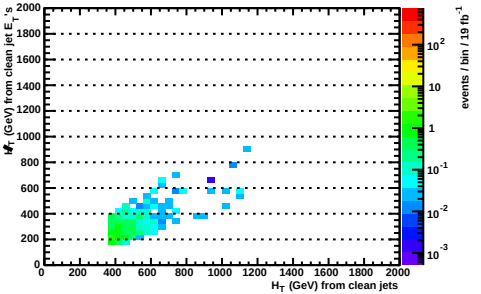
2012 Data



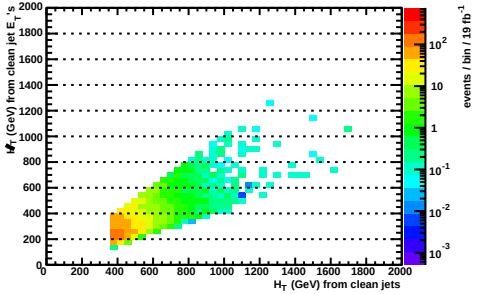
Standard Model



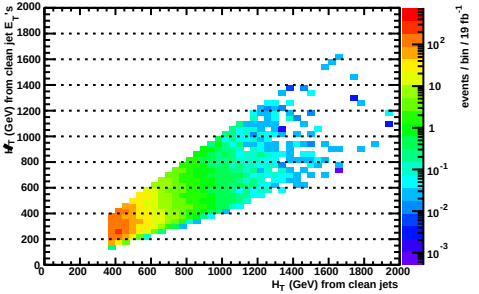
Drell-Yan



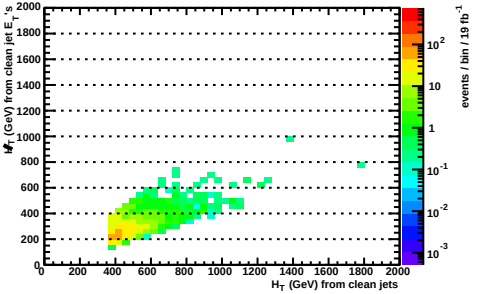
W->lv + jets



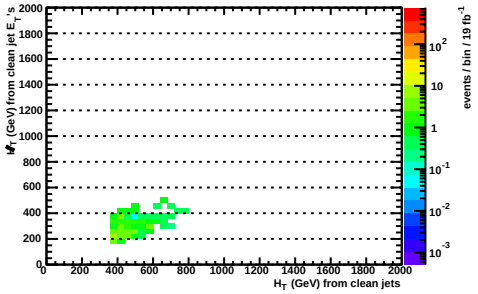
Z->vv + jets



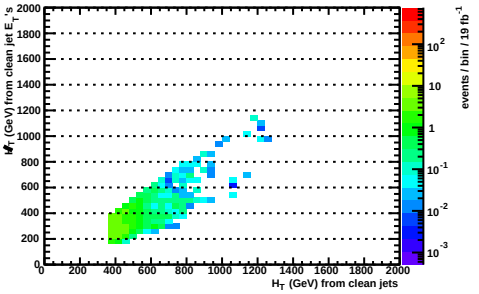
tt

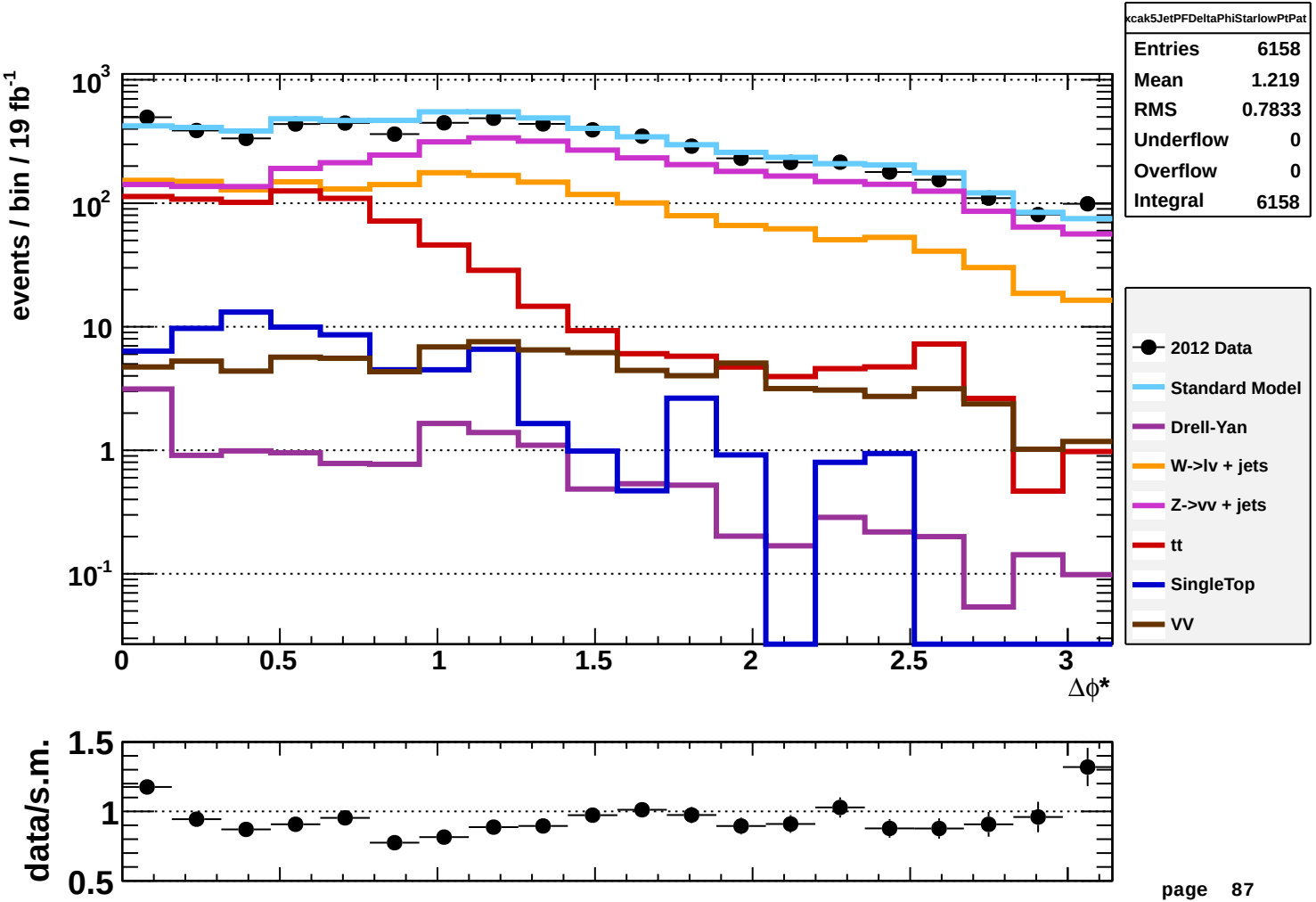


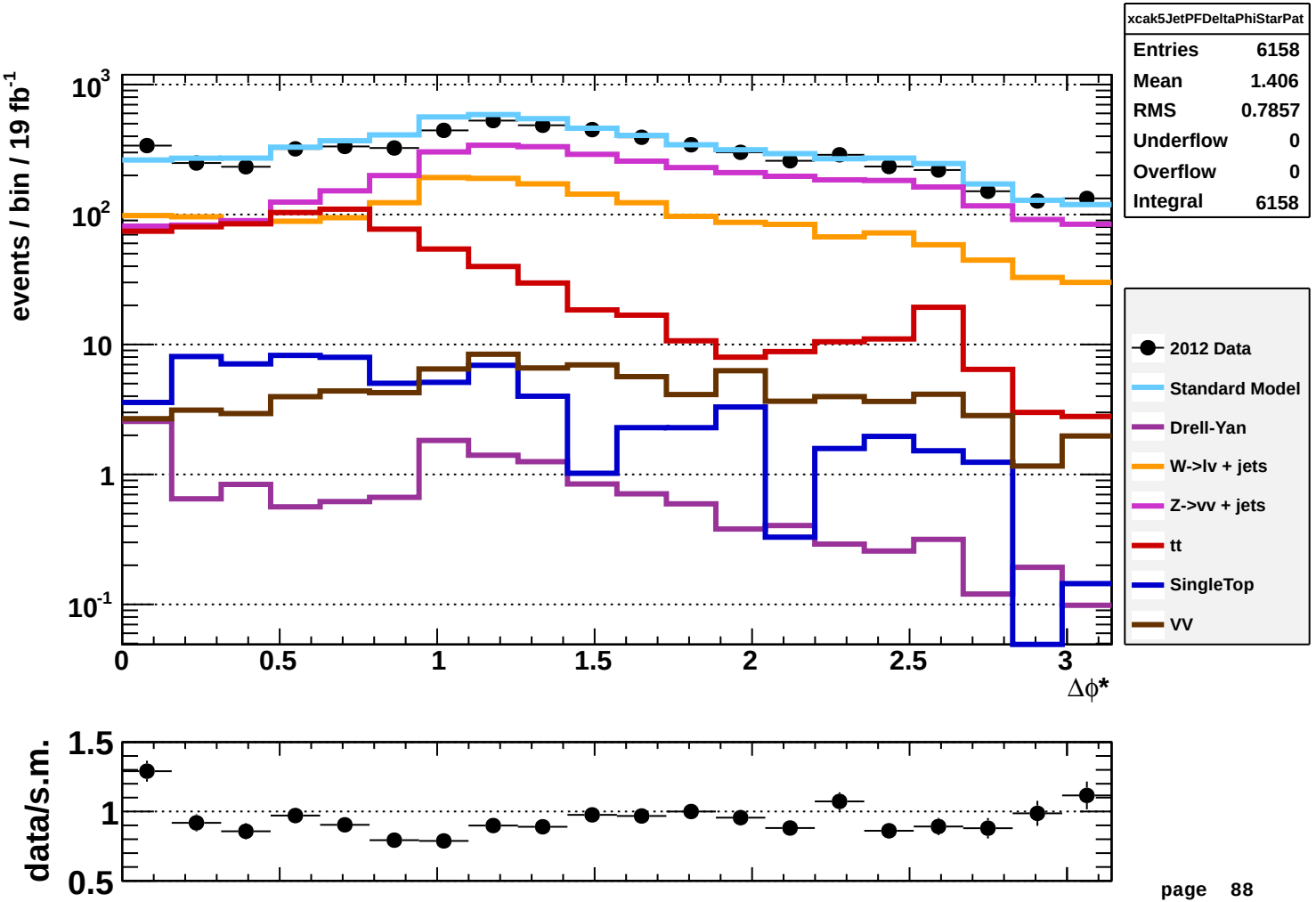
SingleTop

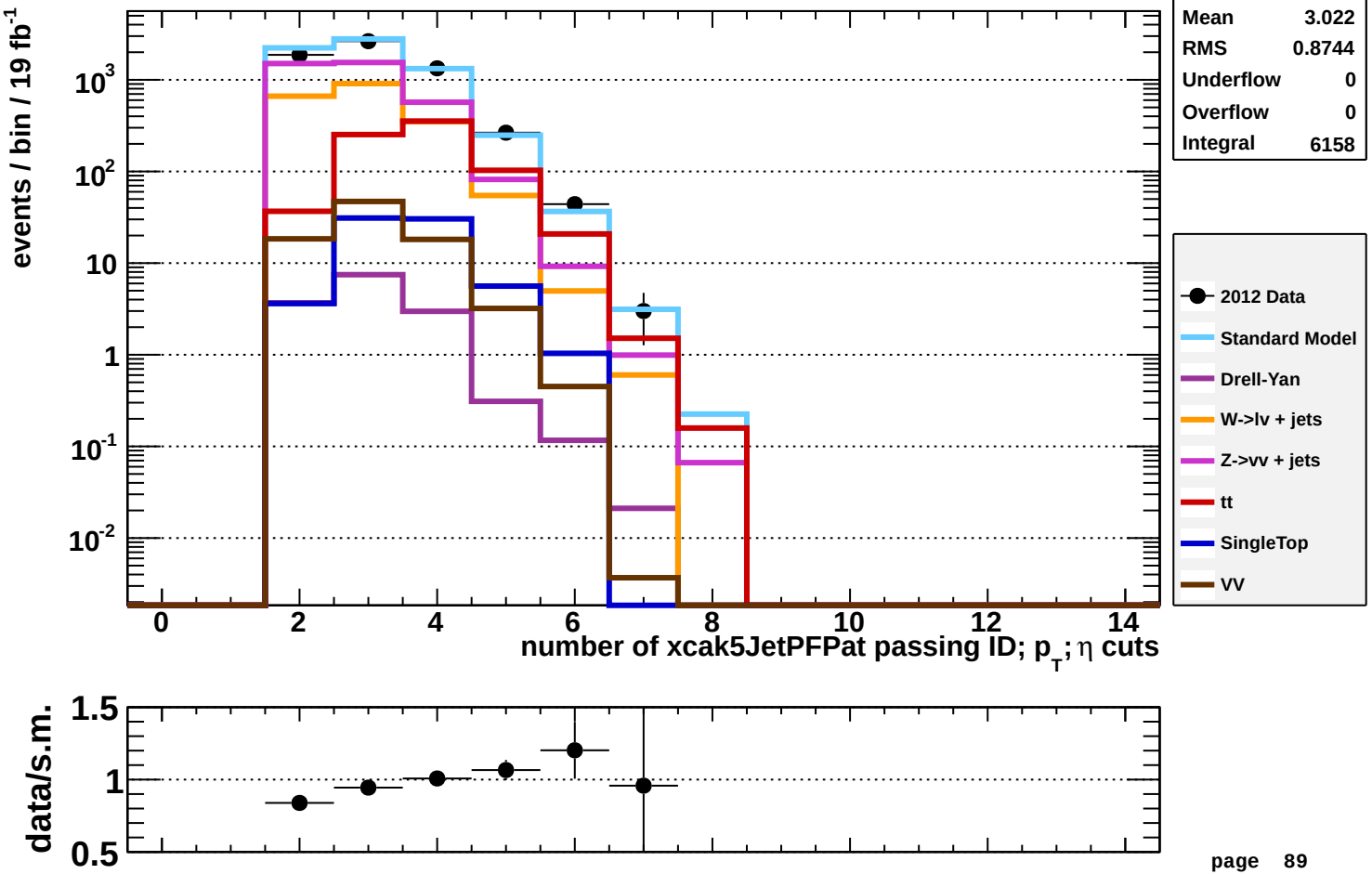


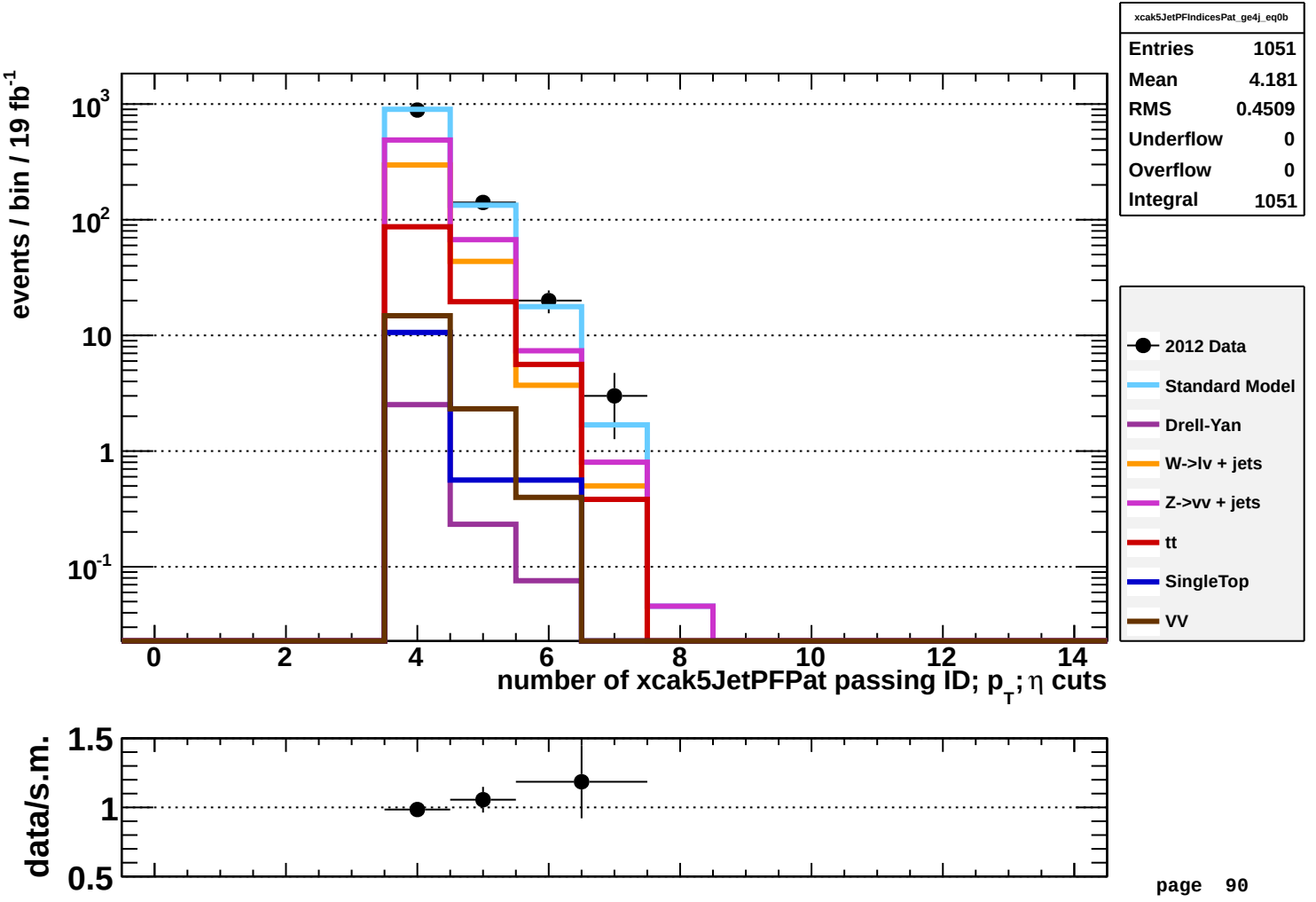
VV

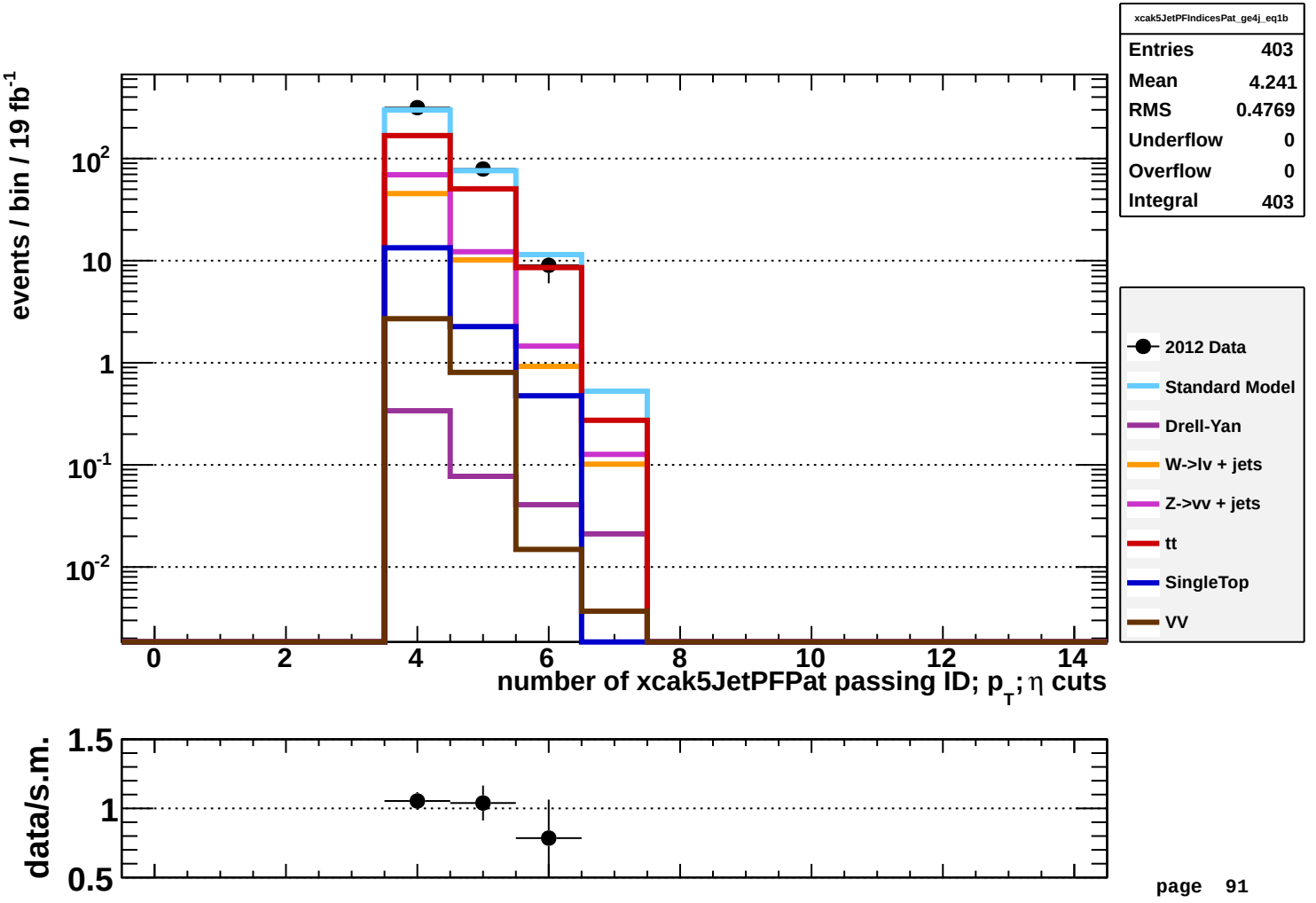


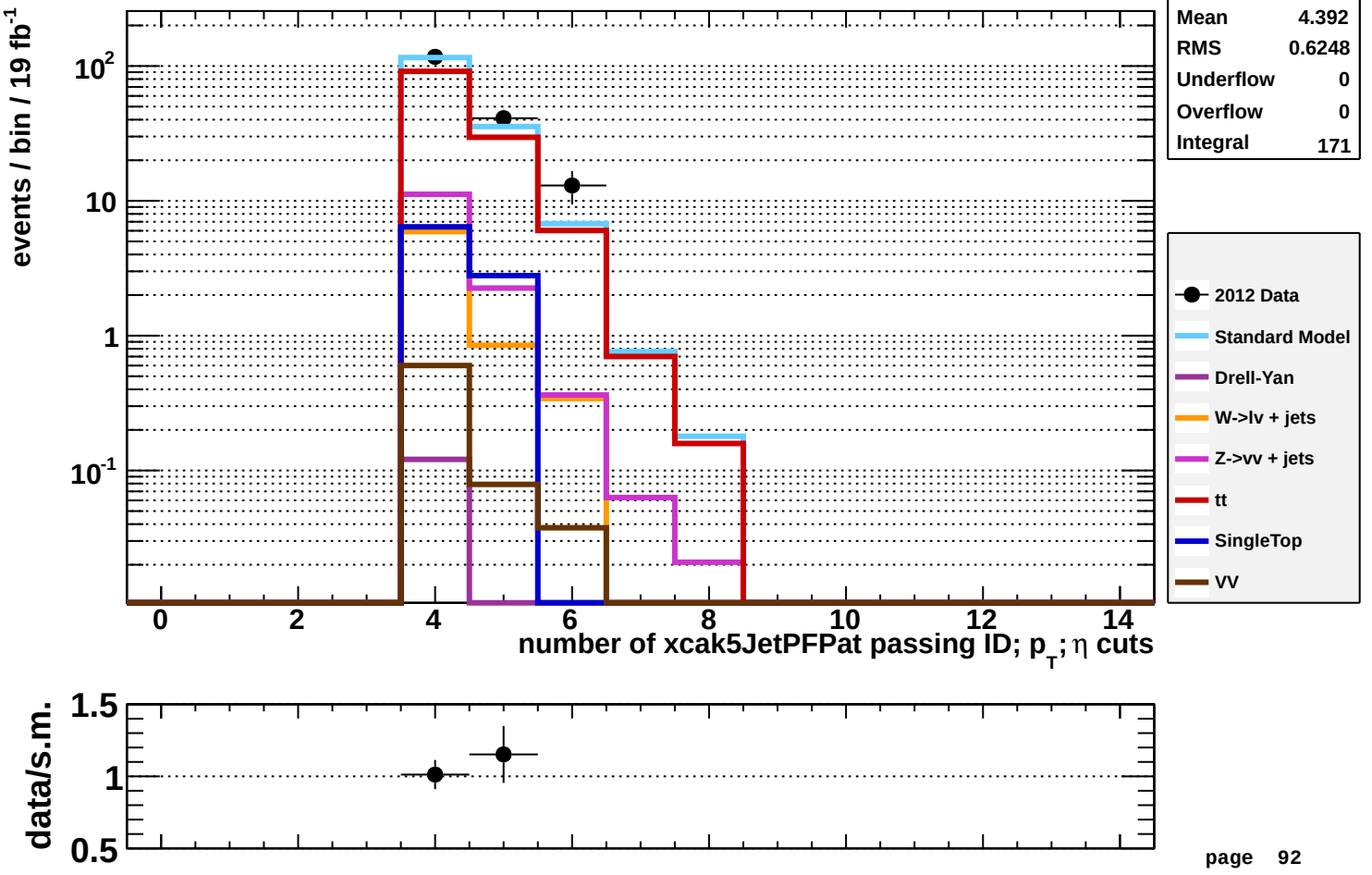

xcak5JetPFDeltaPhiStarlowPtPat
Entries 6158
Mean 1.219
RMS 0.7833
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δϕ*
data/s.m.

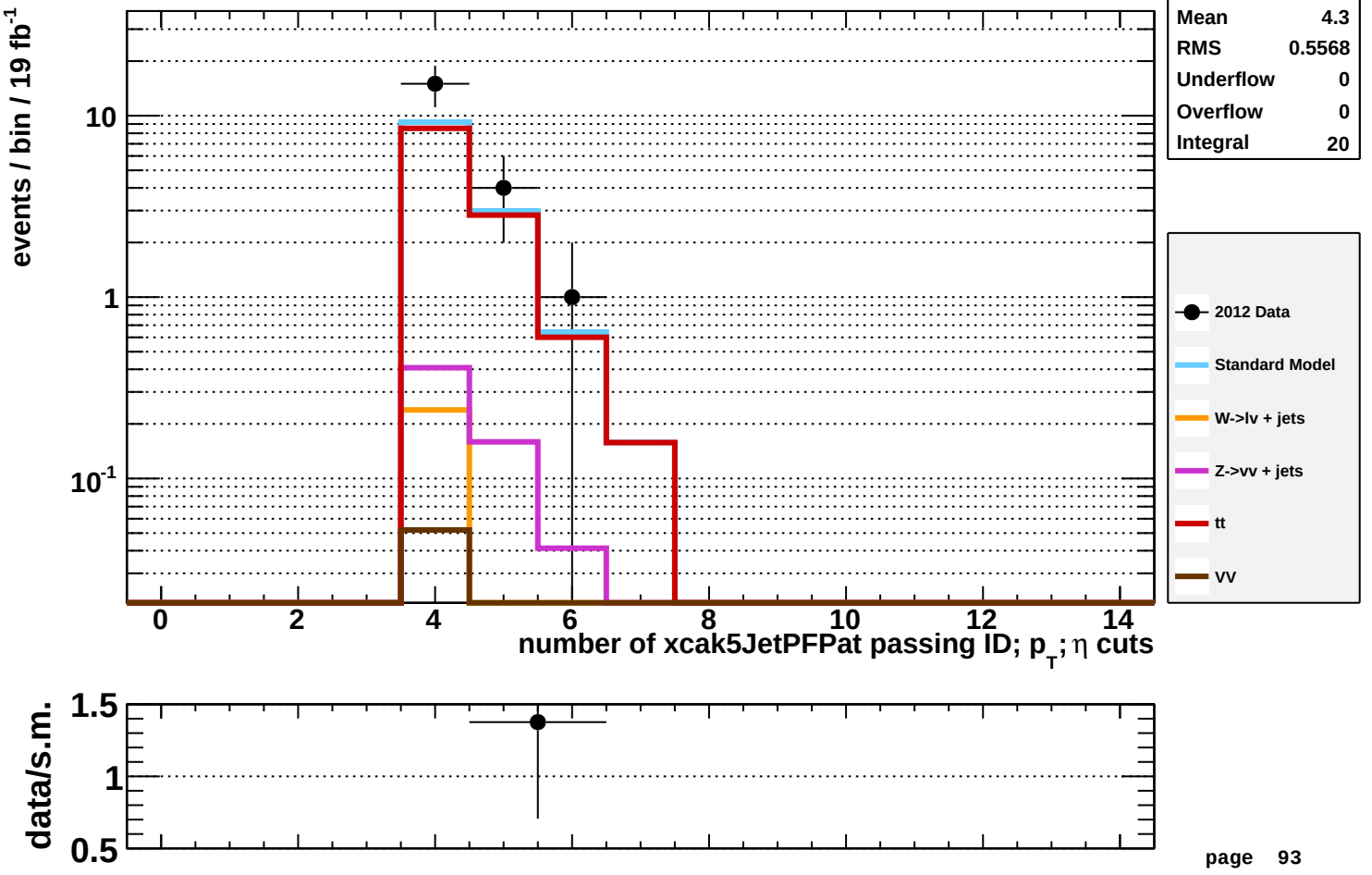

xcak5JetPFDeltaPhiStarPat
Entries 6158
Mean 1.406
RMS 0.7857
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δϕ*
data/s.m.

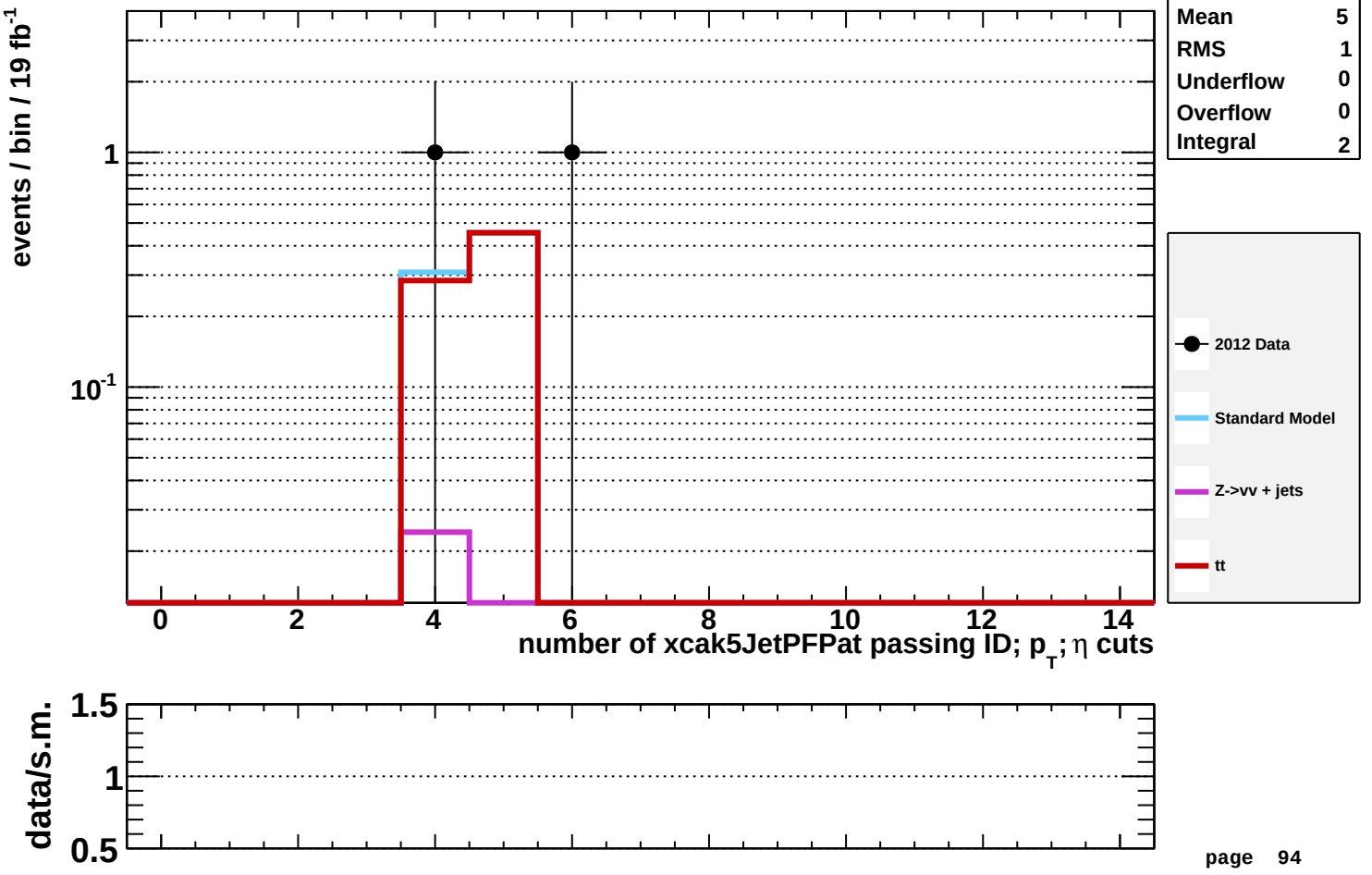

xcak5JetPFIndicesPat
Entries 6158
Mean 3.022
RMS 0.8744
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

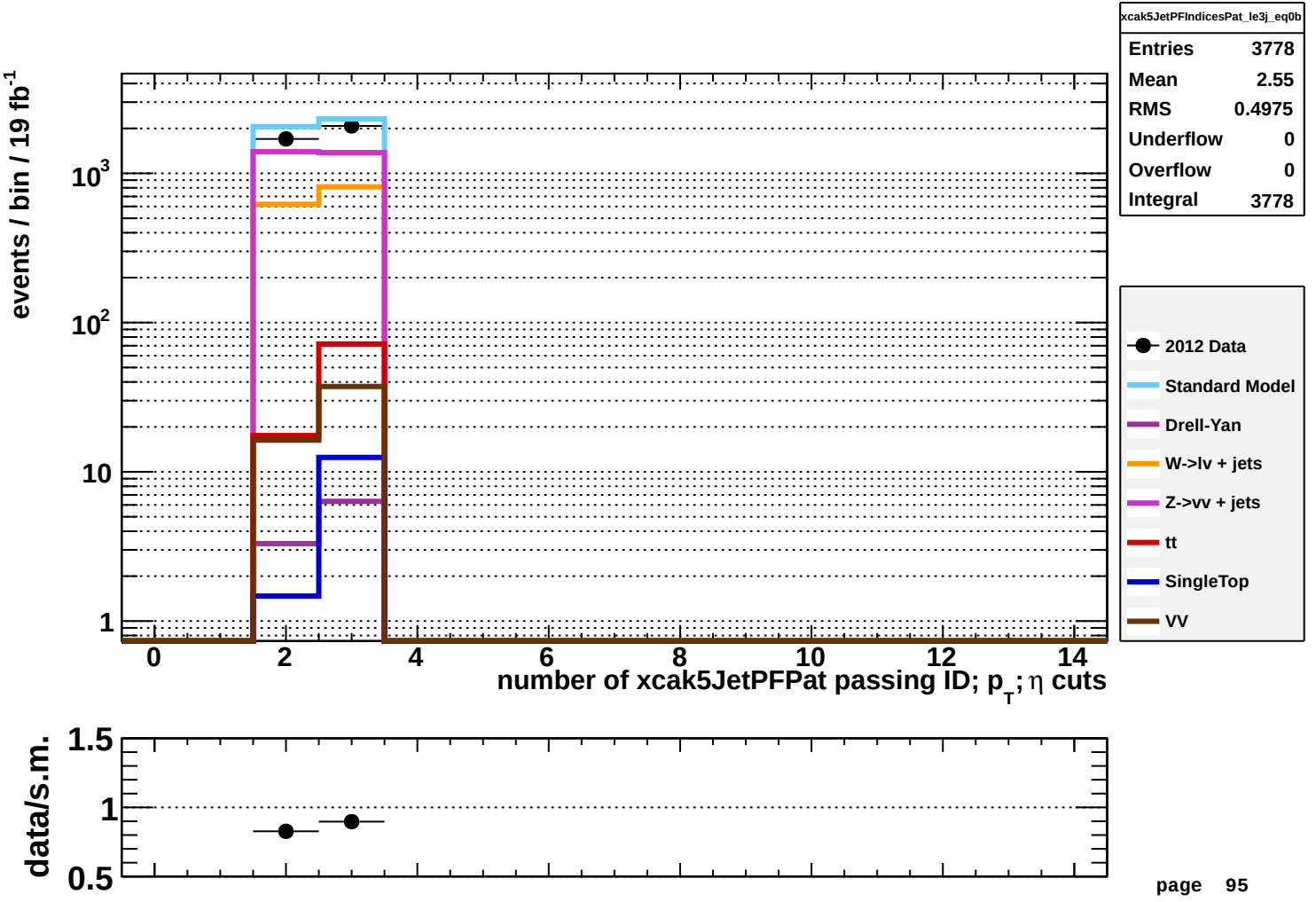

xcak5JetPFIndicesPat_ge4j_eq0b
Entries 1051
Mean 4.181
RMS 0.4509
Underflow 0
Overflow 0
Integral 1051
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

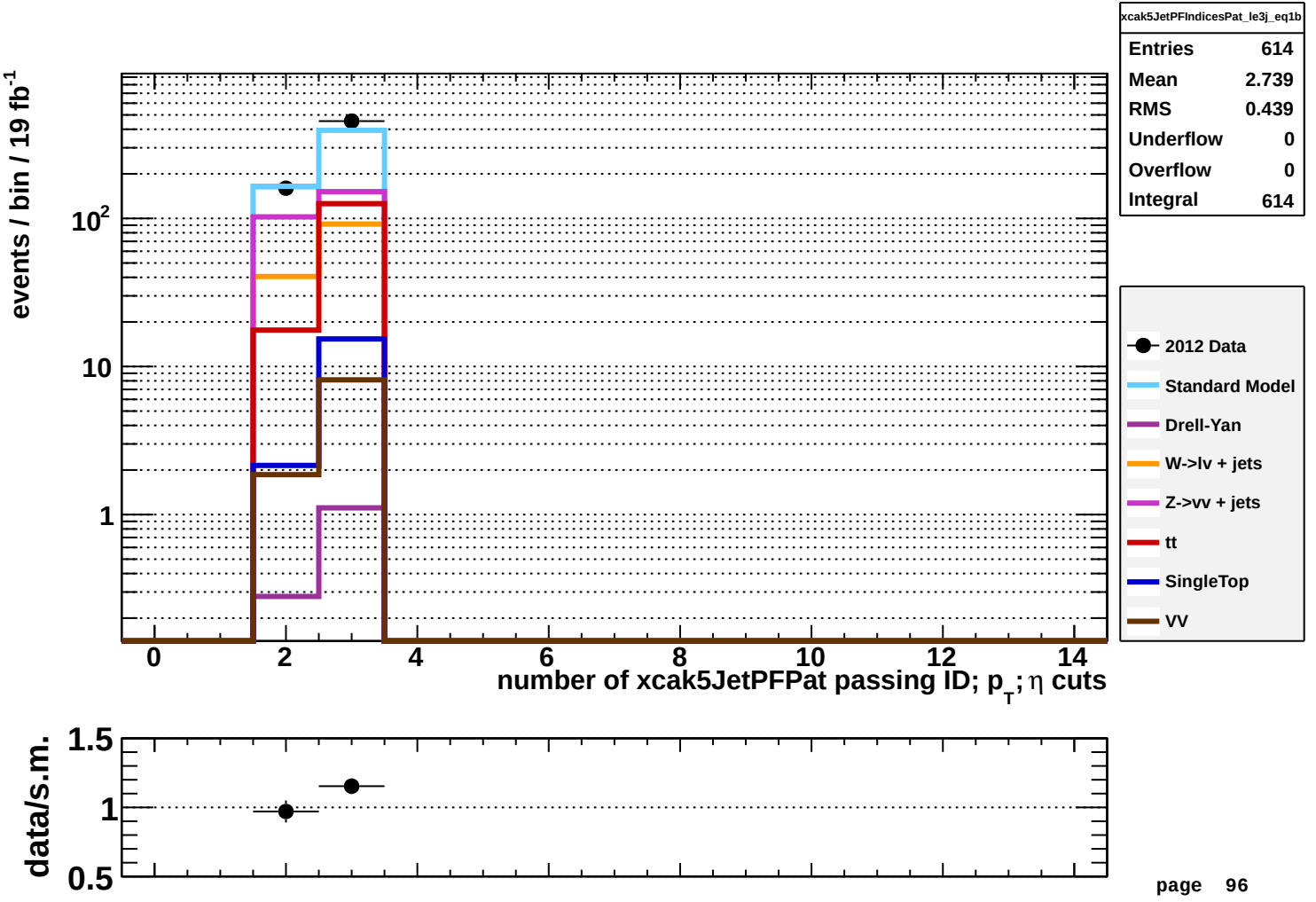

xcak5JetPFIndicesPat_ge4j_eq1b
Entries 403
Mean 4.241
RMS 0.4769
Underflow 0
Overflow 0
Integral 403
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

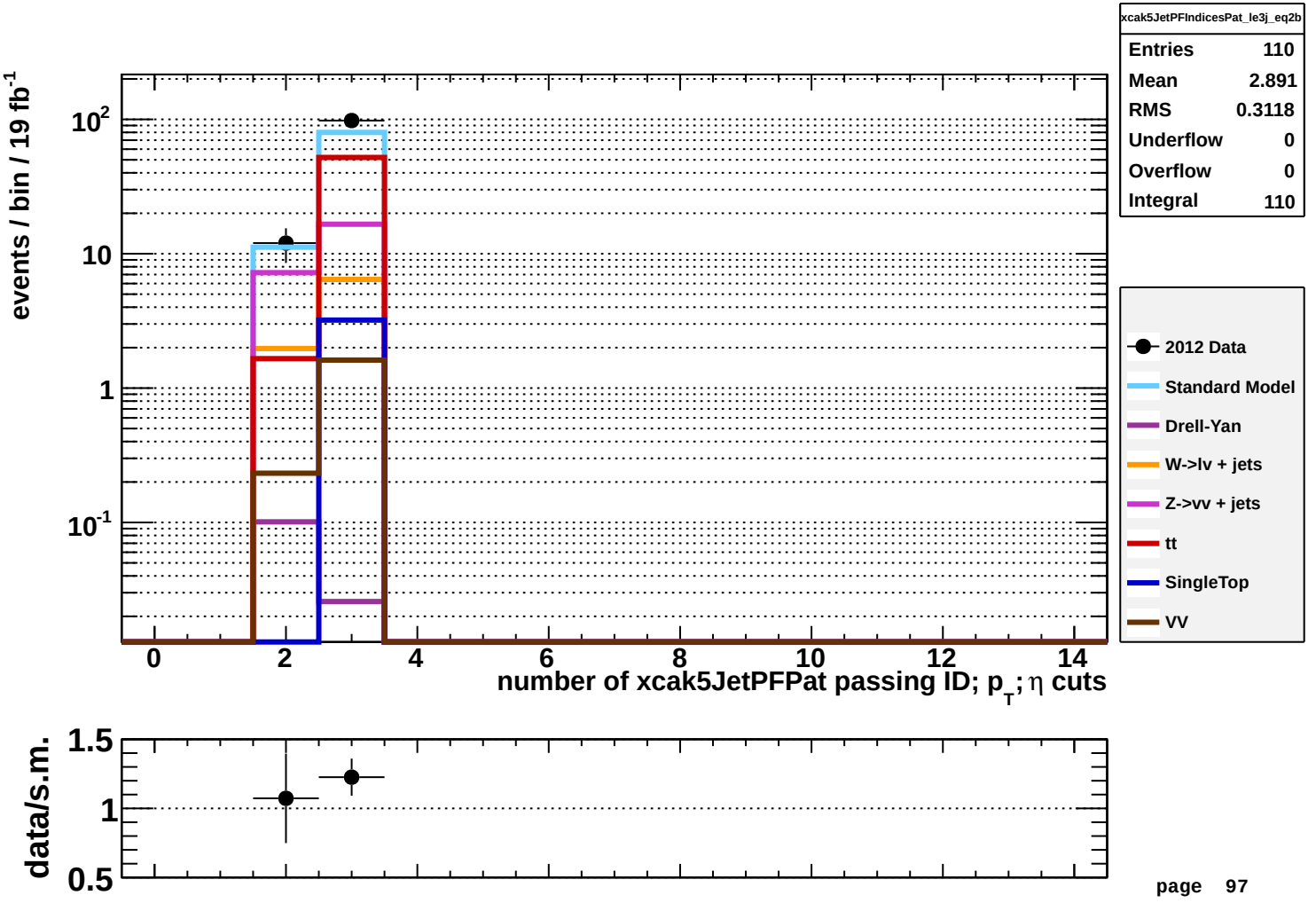

xcak5JetPFIndicesPat_ge4j_eq2b
Entries 171
Mean 4.392
RMS 0.6248
Underflow 0
Overflow 0
Integral 171
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

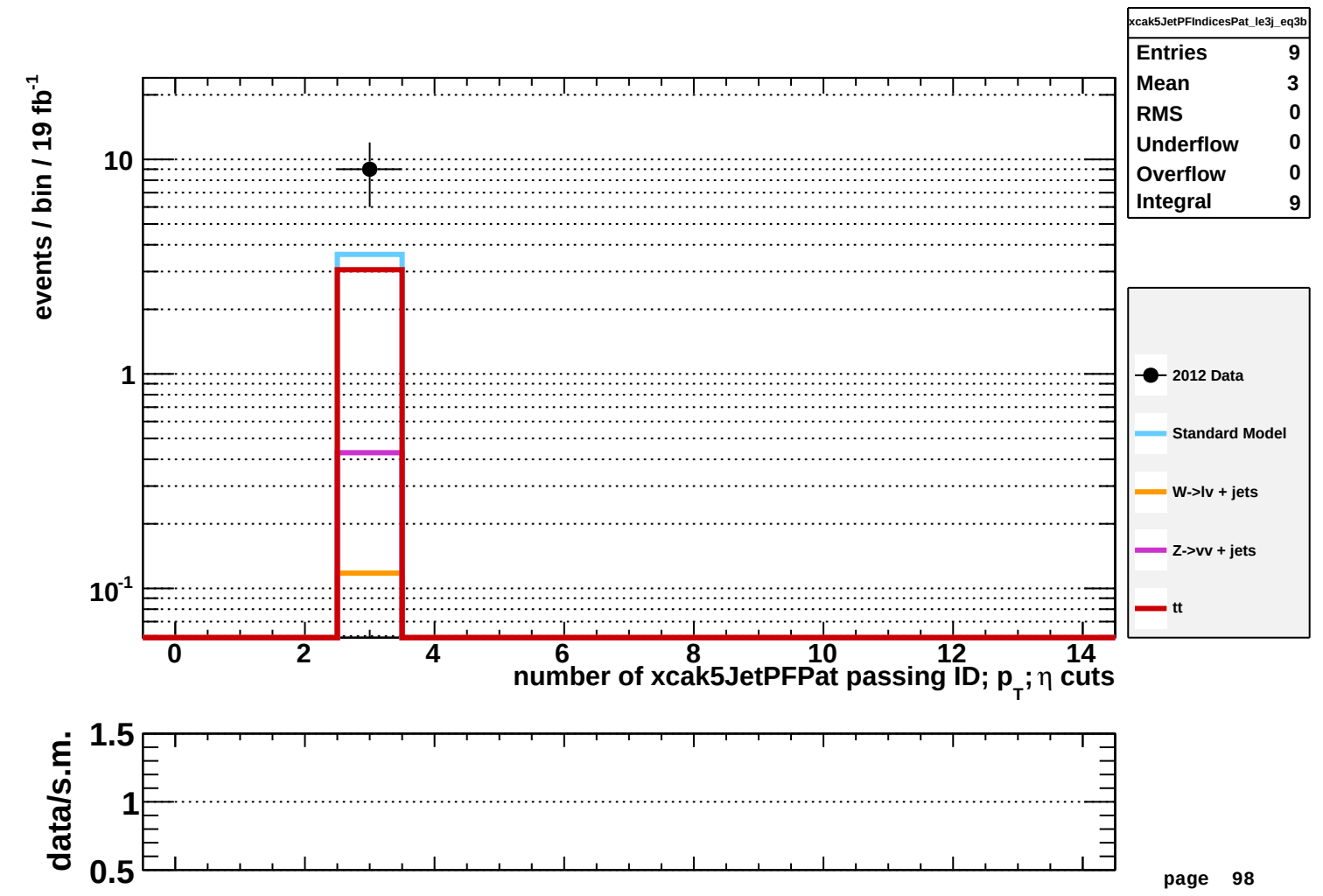

xcak5JetPFIndicesPat_ge4j_eq3b
Entries 20
Mean 4.3
RMS 0.5568
Underflow 0
Overflow 0
Integral 20
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

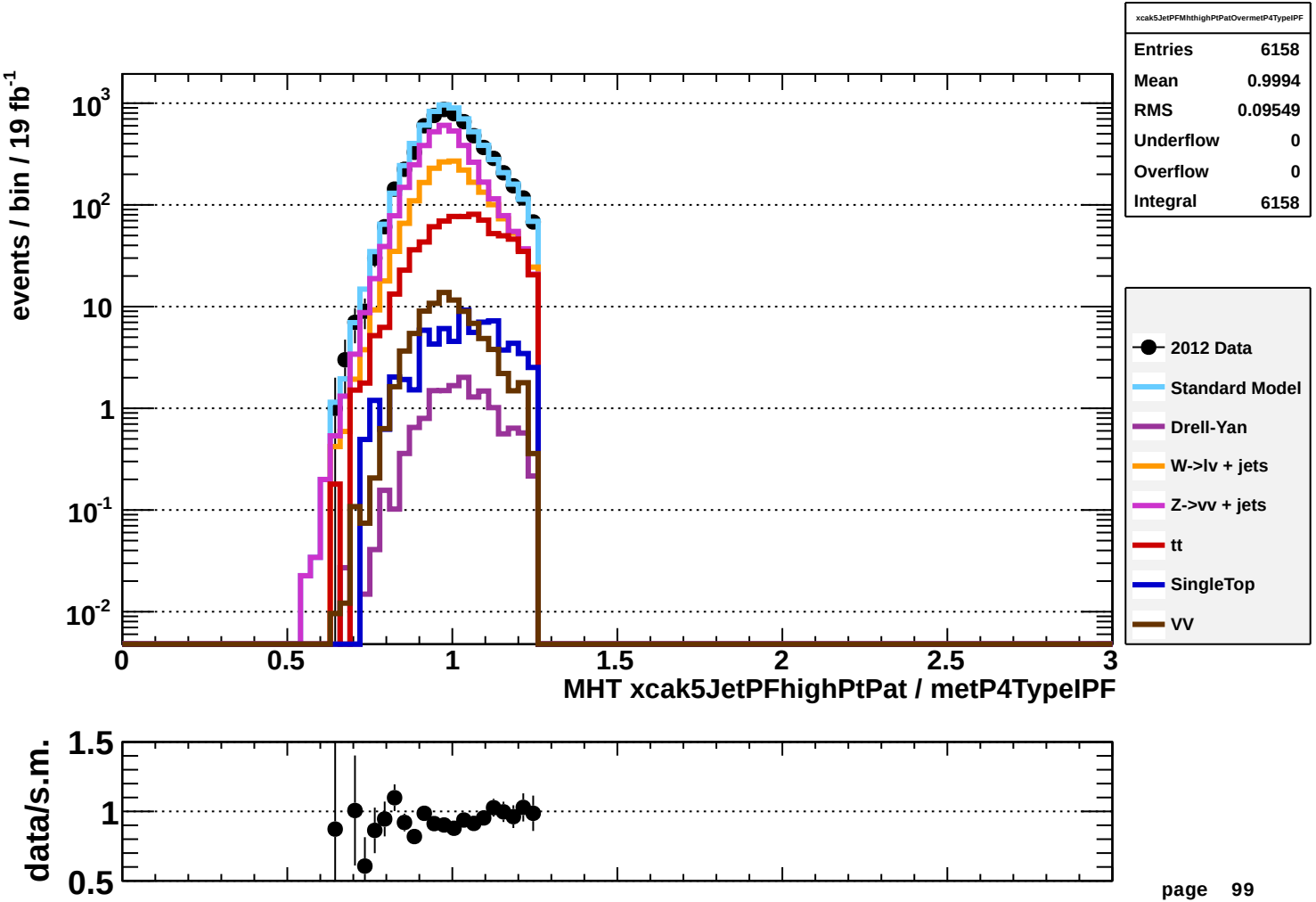

xcak5JetPFIndicesPat_ge4j_ge4b
Entries 2
Mean 5
RMS 1
Underflow 0
Overflow 0
Integral 2
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

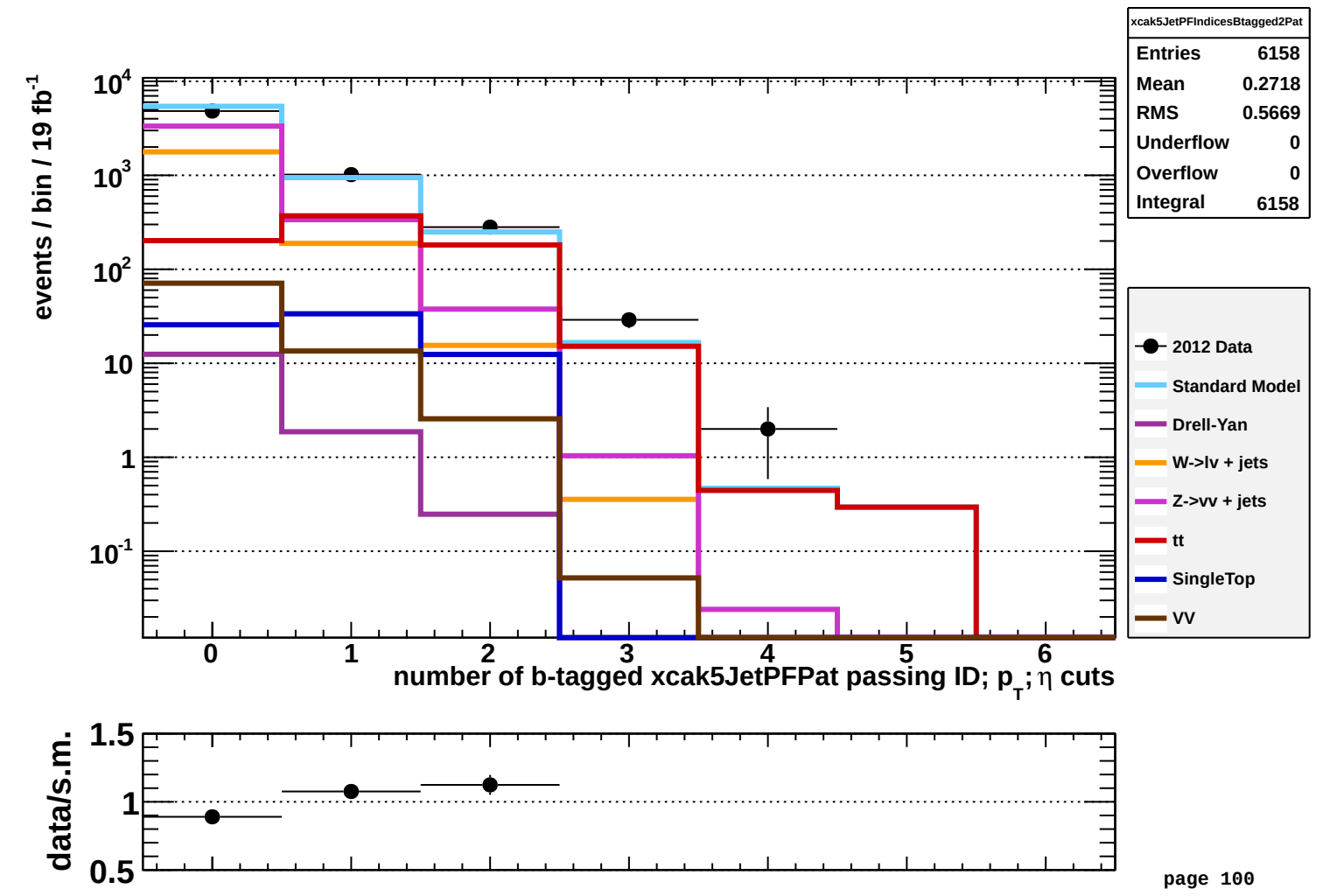

xcak5JetPFIndicesPat_le3j_eq0b
Entries 3778
Mean 2.55
RMS 0.4975
Underflow 0
Overflow 0
Integral 3778
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

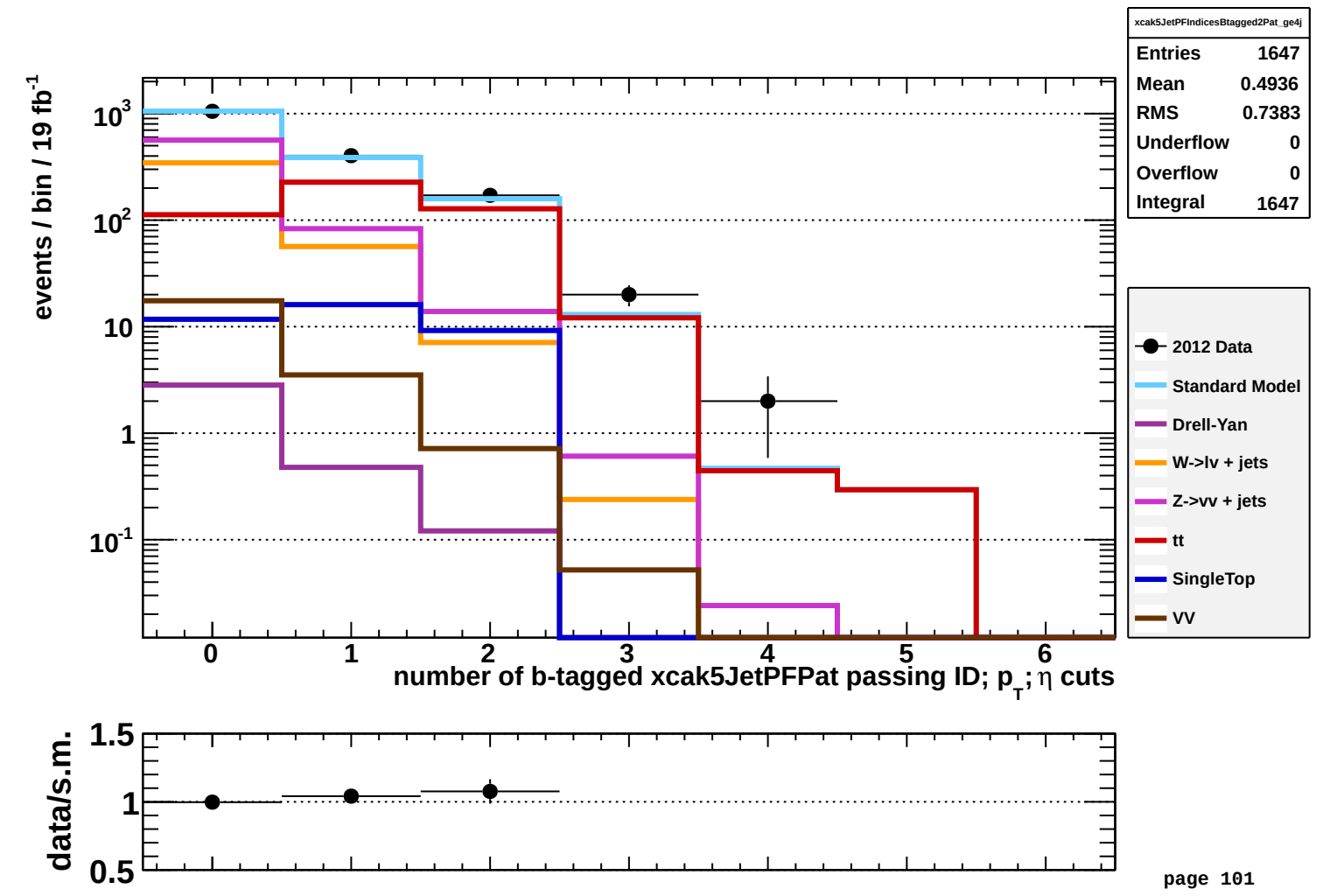

xcak5JetPFIndicesPat_le3j_eq1b
Entries 614
Mean 2.739
RMS 0.439
Underflow 0
Overflow 0
Integral 614
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

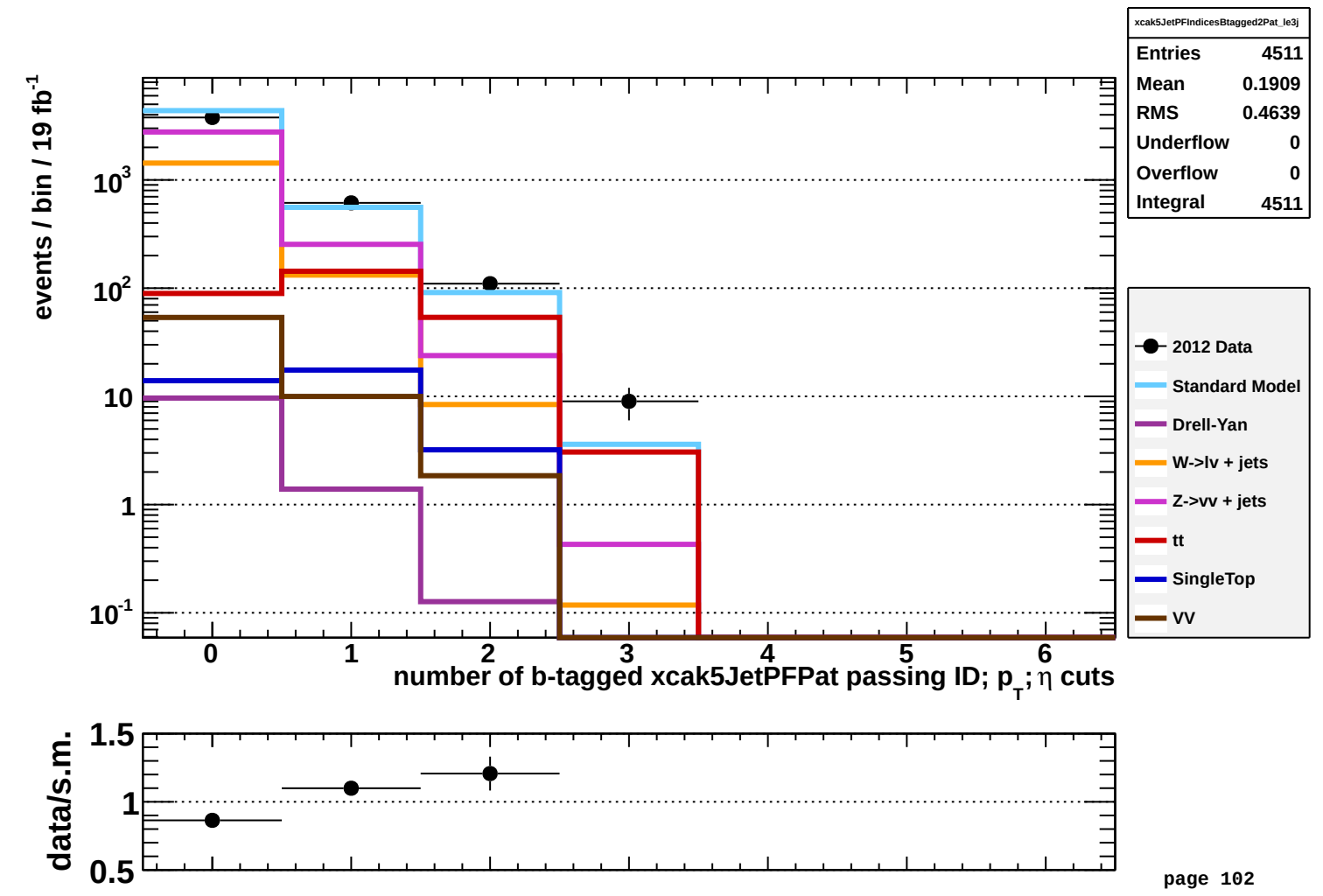

xcak5JetPFIndicesPat_le3j_eq2b
Entries 110
Mean 2.891
RMS 0.3118
Underflow 0
Overflow 0
Integral 110
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.


xcak5JetPFIndicesPat_le3j_eq3b
Entries 9
Mean 3
RMS 0
Underflow 0
Overflow 0
Integral 9
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
events / bin / 19 fb-1
10
1
10-1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

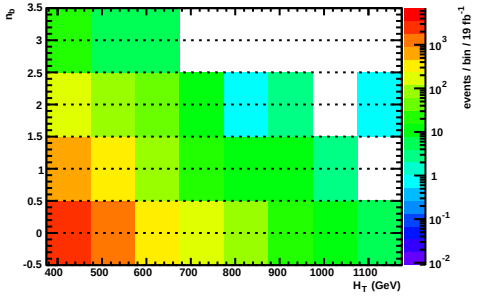

xcak5JetPFMhthighPtPatOvermetP4TypeIPF
Entries 6158
Mean 0.9994
RMS 0.09549
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT xcak5JetPFhighPtPat / metP4TypeIPF
data/s.m.


xcak5JetPFIndicesBtagged2Pat
Entries 6158
Mean 0.2718
RMS 0.5669
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

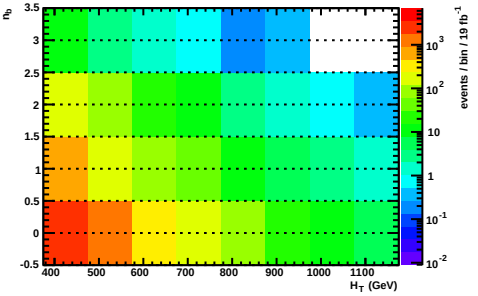

xcak5JetPFIndicesBtagged2Pat_ge4j
Entries 1647
Mean 0.4936
RMS 0.7383
Underflow 0
Overflow 0
Integral 1647
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.


xcak5JetPFIndicesBtagged2Pat_le3j
Entries 4511
Mean 0.1909
RMS 0.4639
Underflow 0
Overflow 0
Integral 4511
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

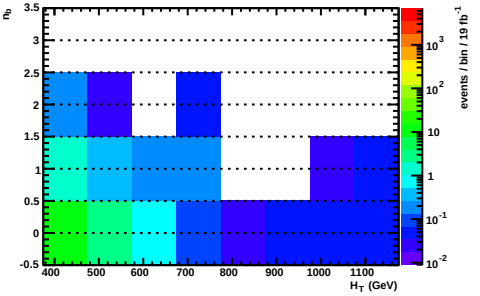
2012 Data



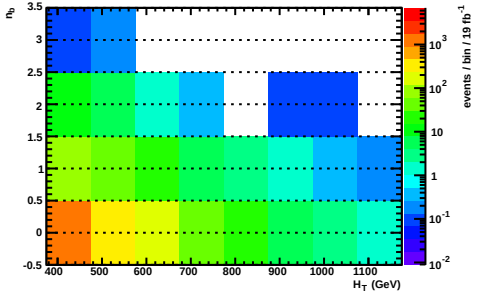
Standard Model



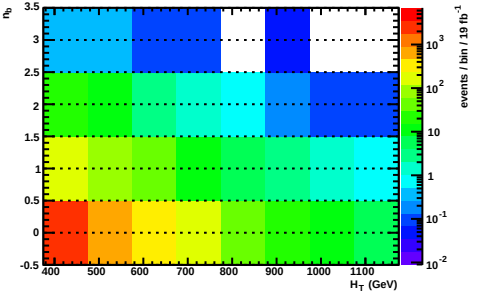
Drell-Yan



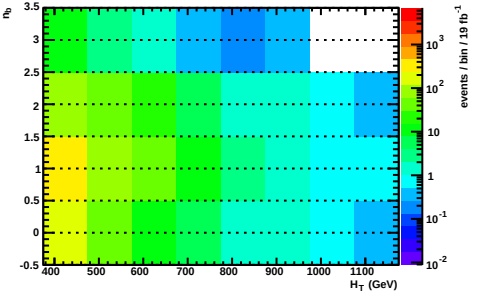
W->lv + jets



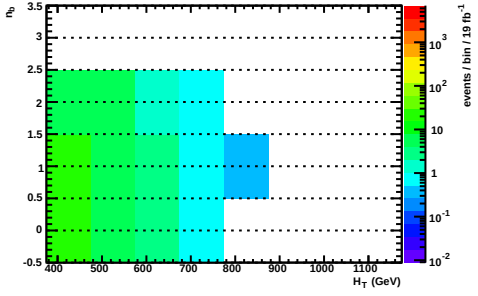
Z->vv + jets



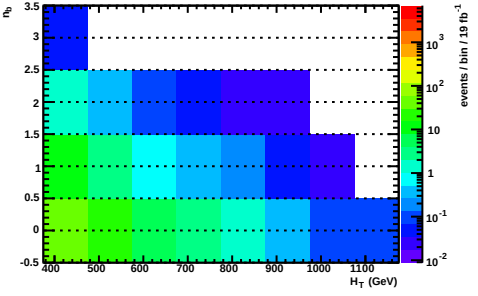
tt



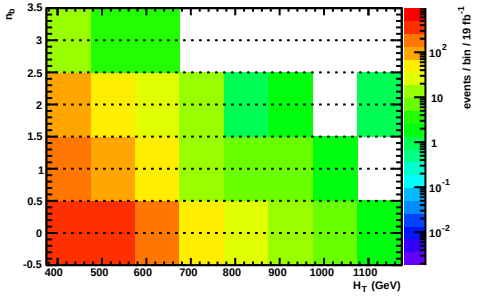
SingleTop



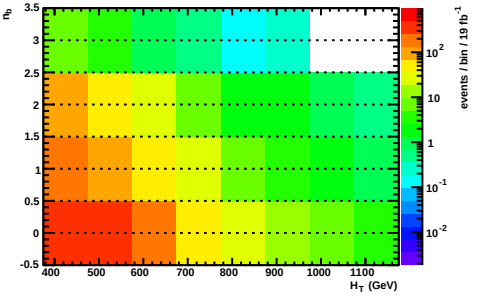
VV



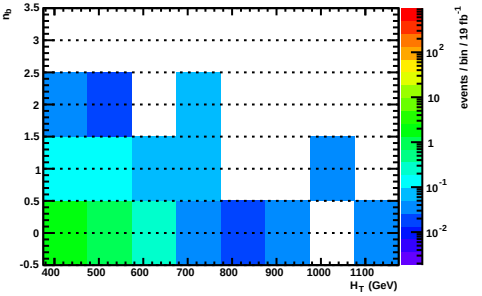
2012 Data



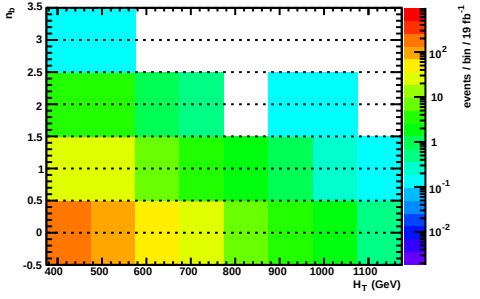
Standard Model



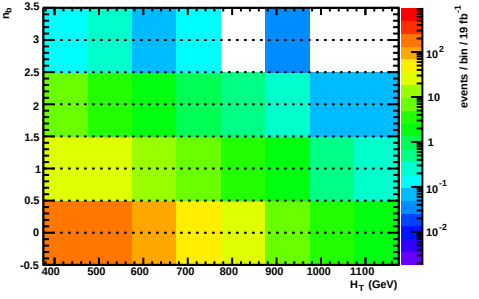
Drell-Yan



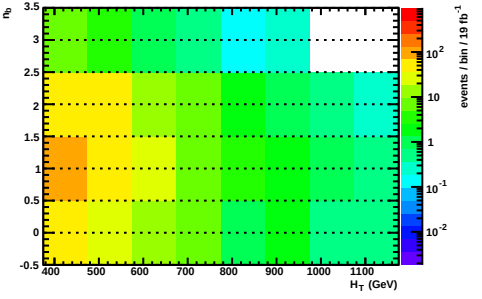
W->lv + jets



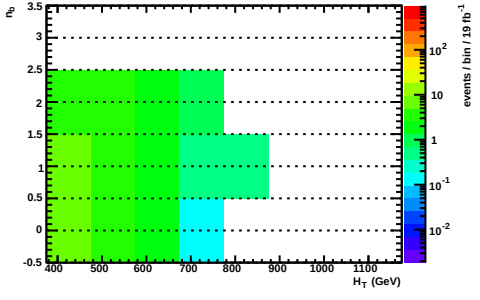
Z->vv + jets



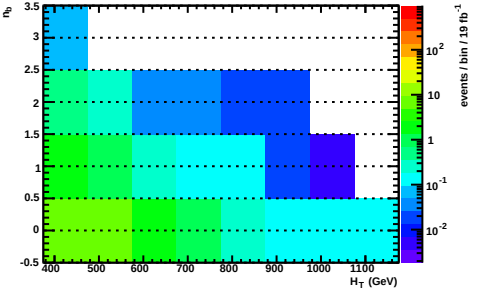
tt



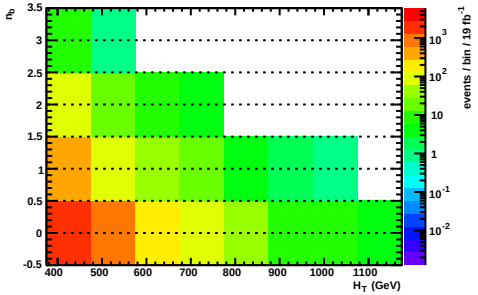
SingleTop



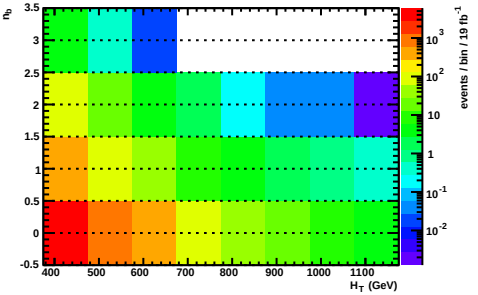
VV



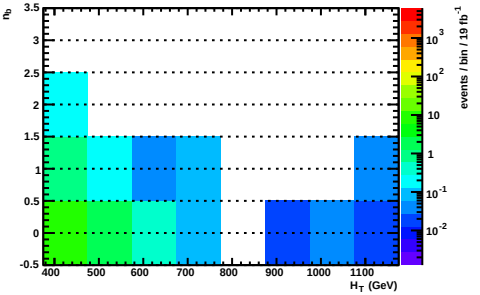
2012 Data



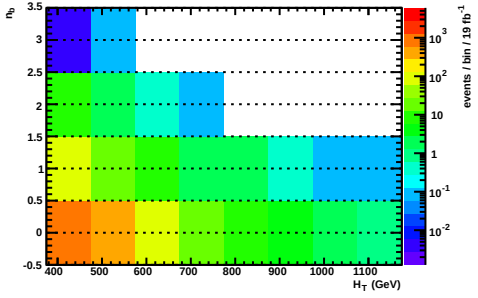
Standard Model



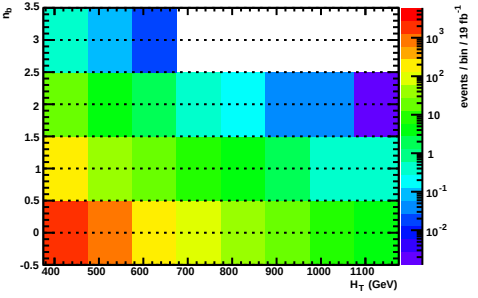
Drell-Yan



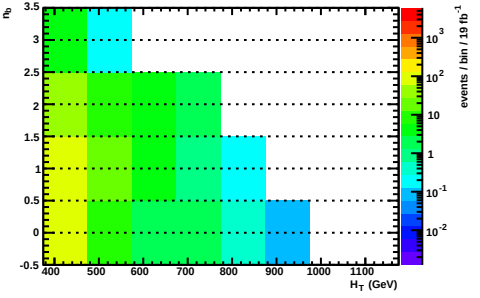
W->lv + jets



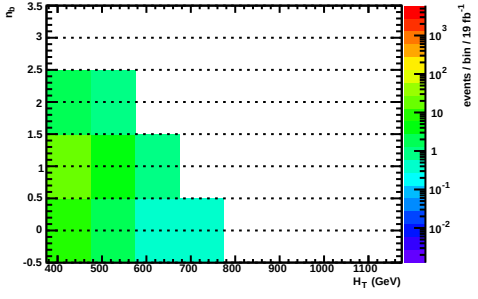
Z->vv + jets



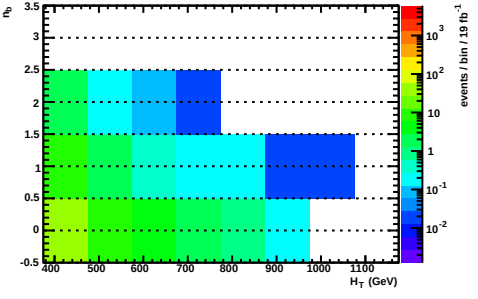
tt

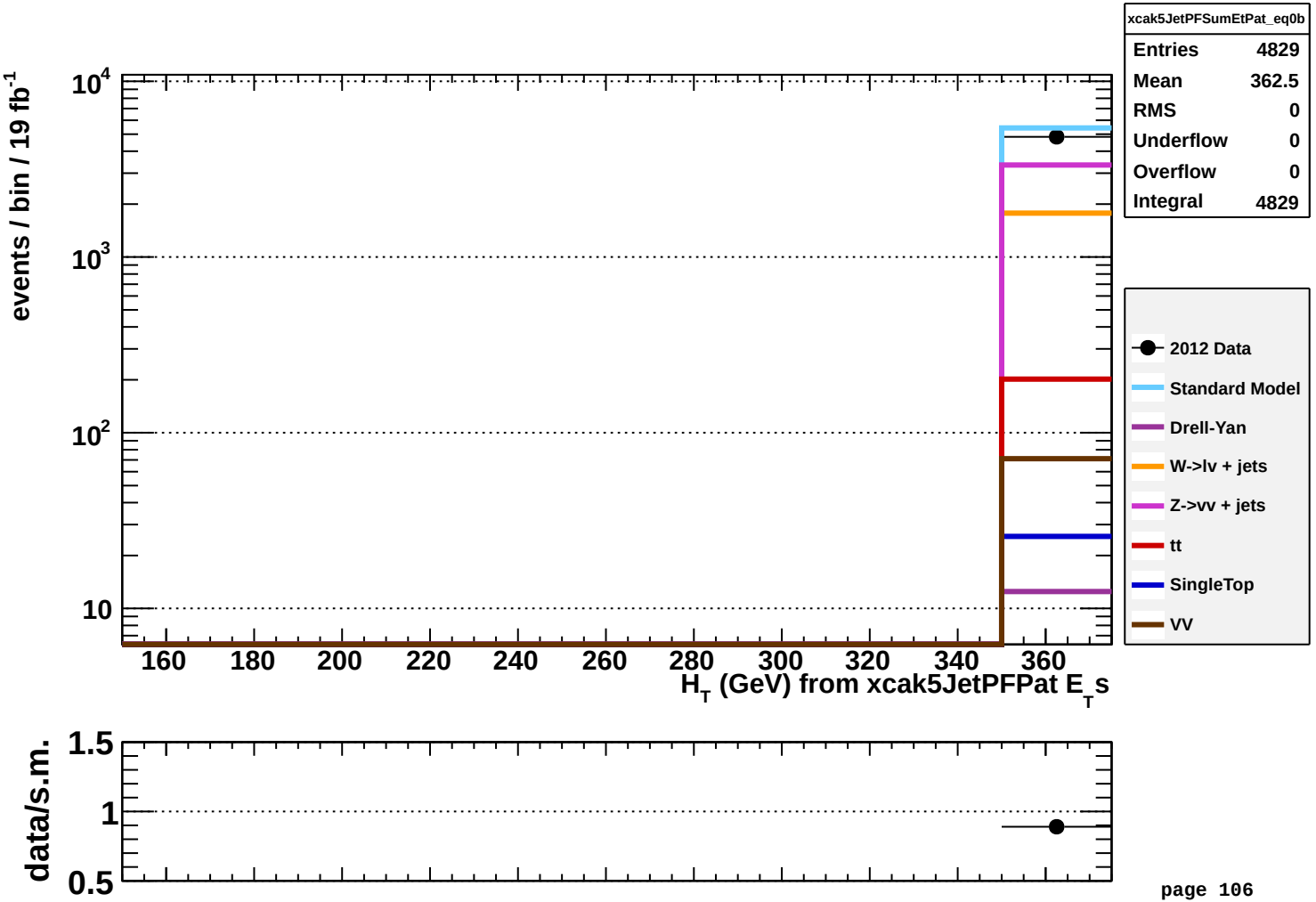


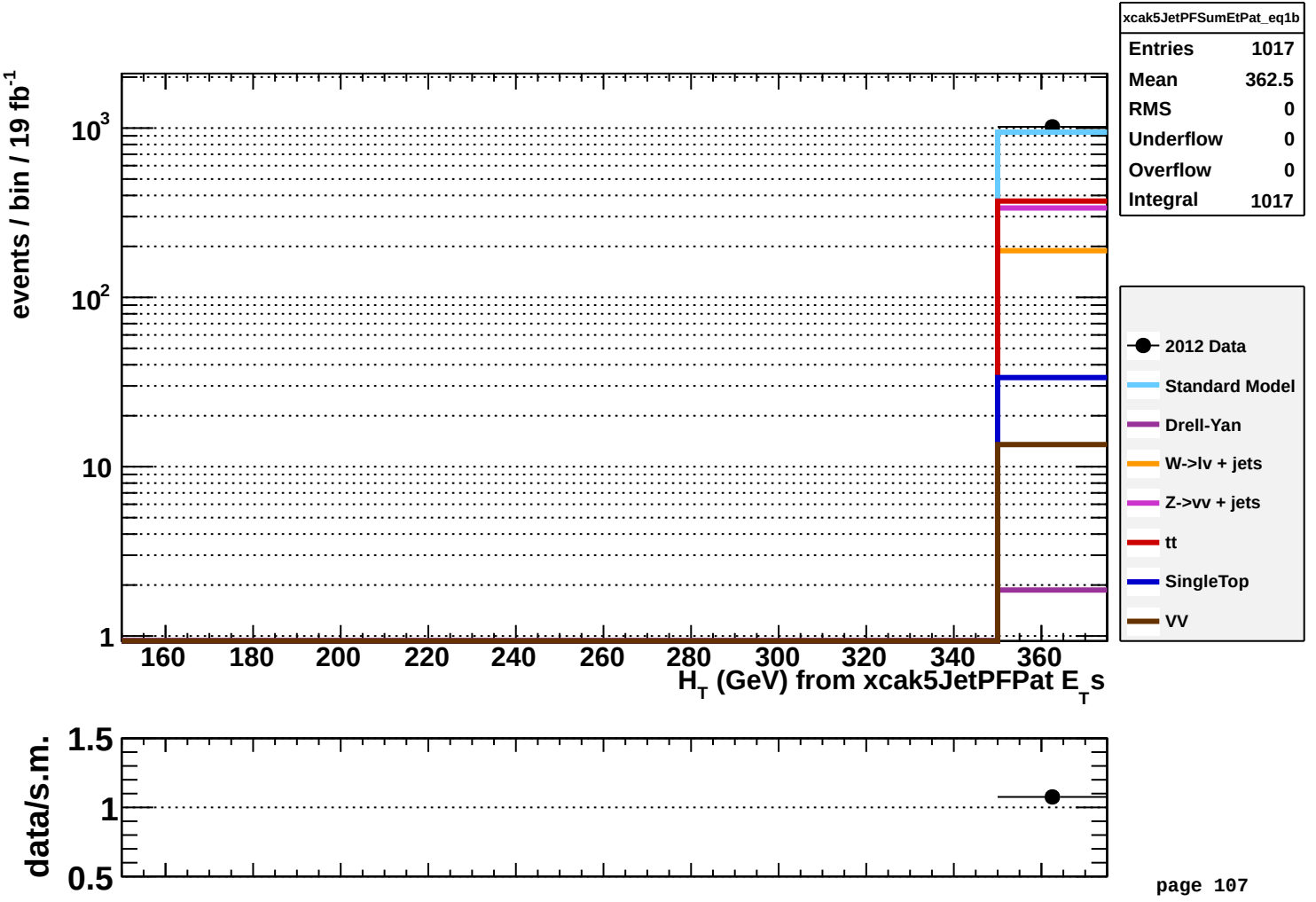
SingleTop

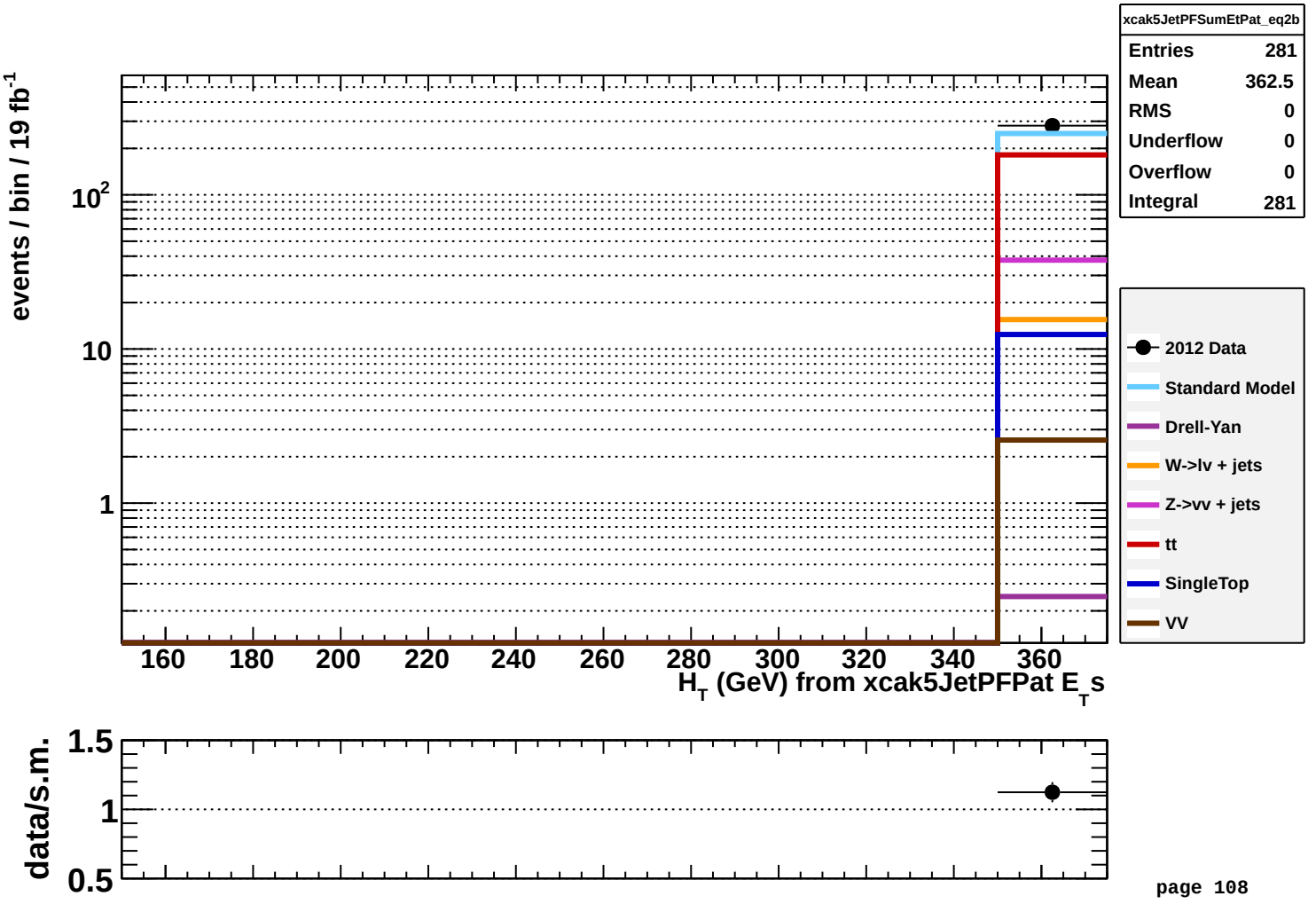


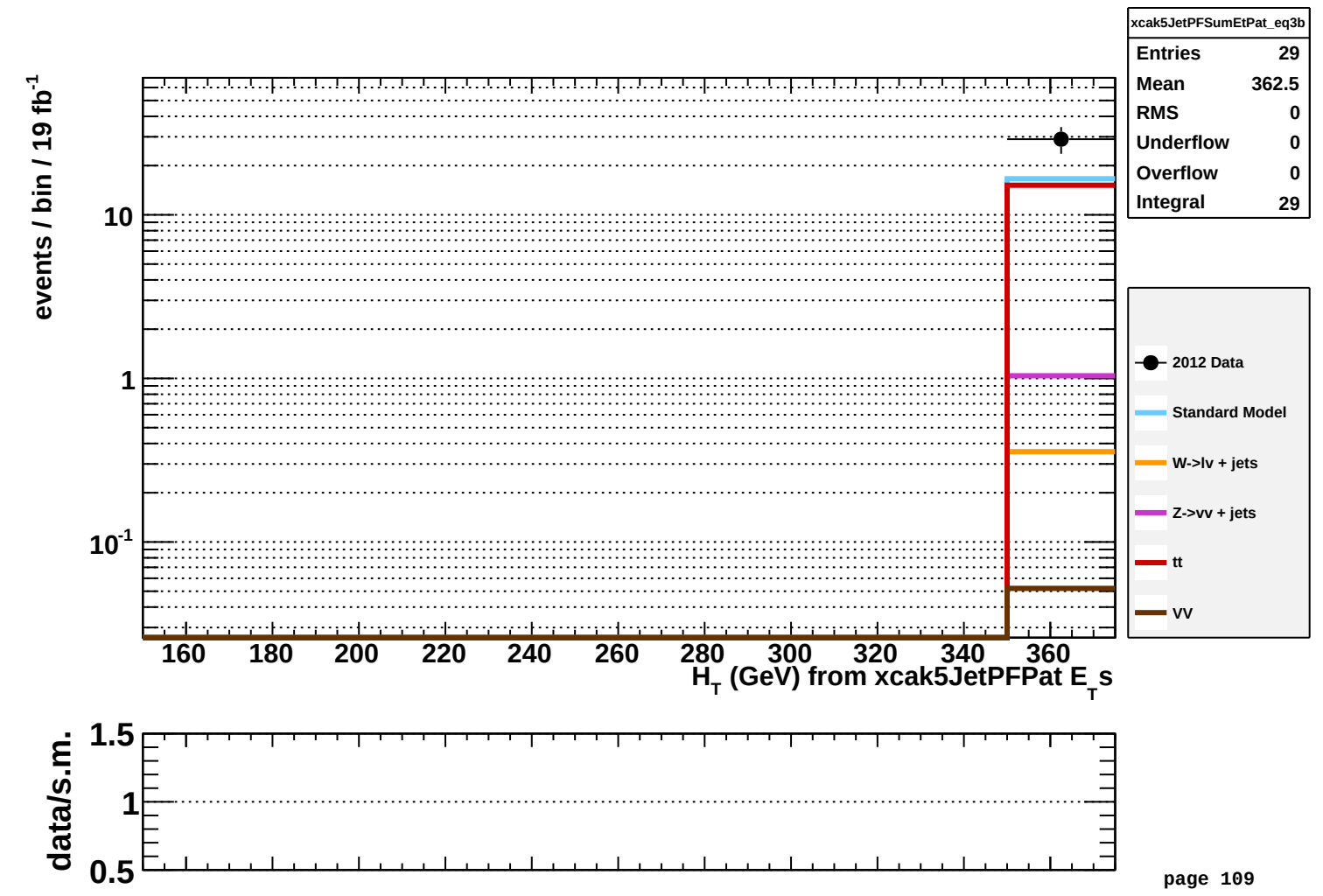
VV

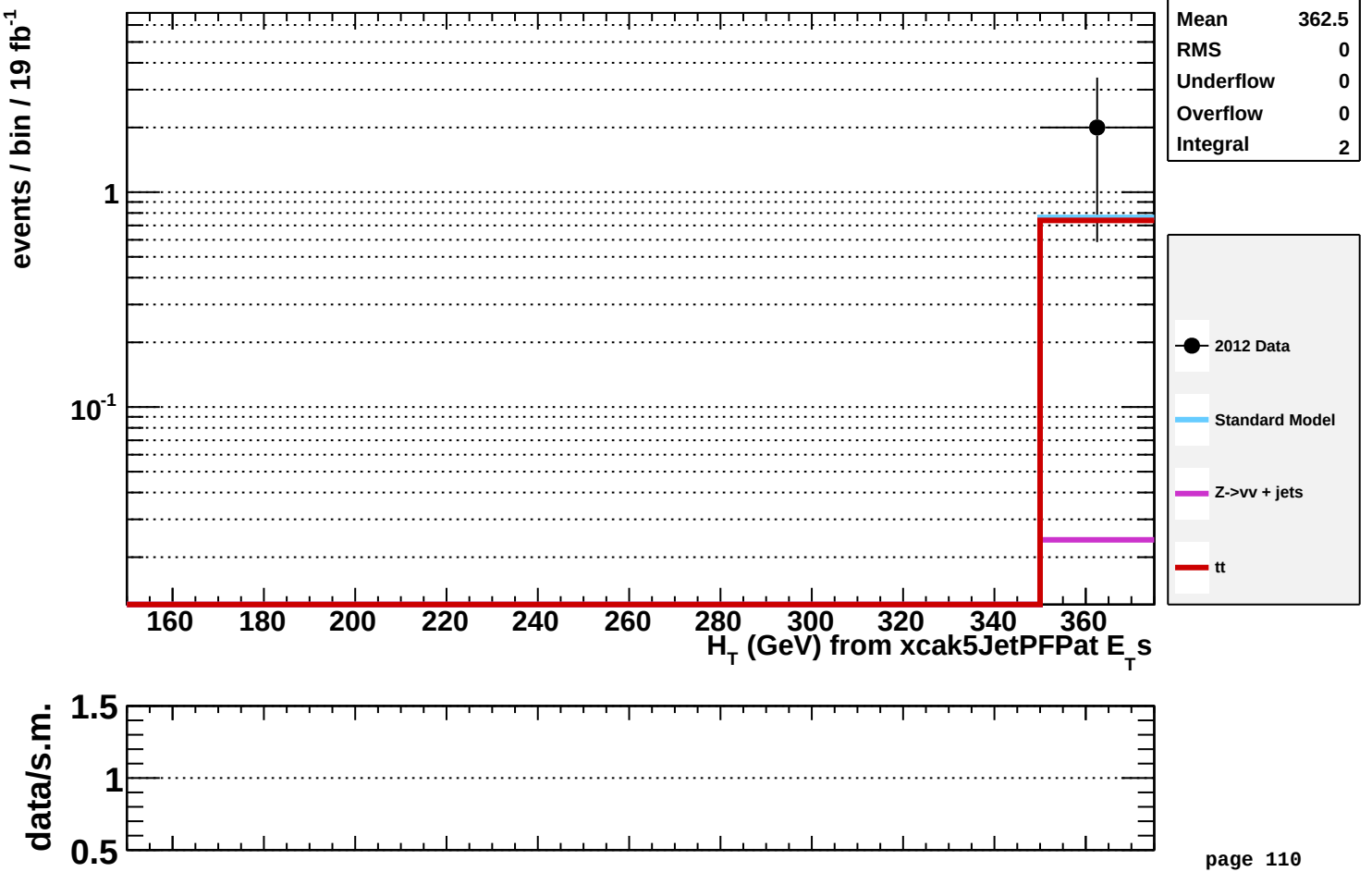


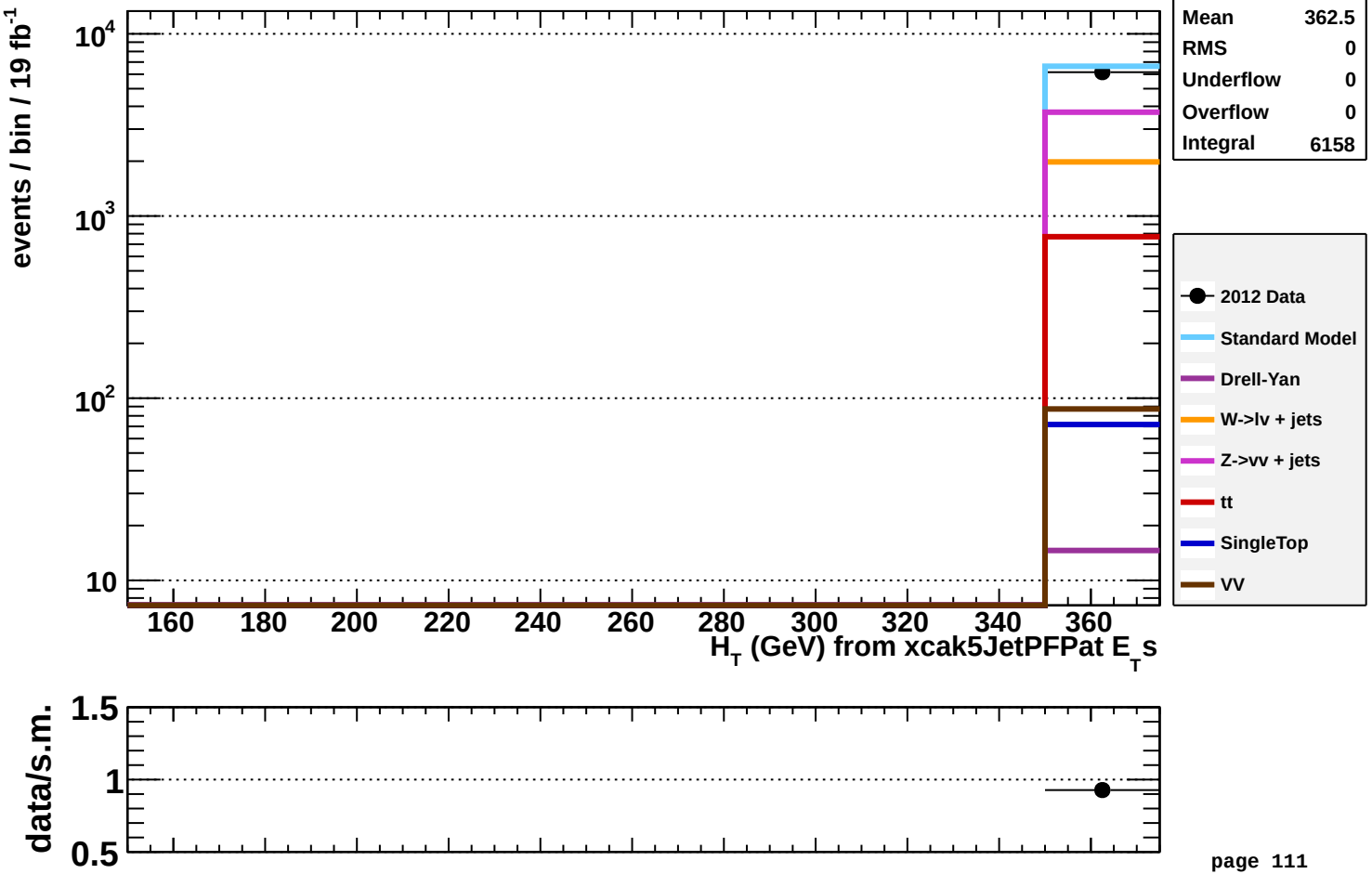

xcak5JetPFSumEtPat_eq0b
Entries 4829
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 4829
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
160
180
200
220
240
260
280
300
320
340
360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

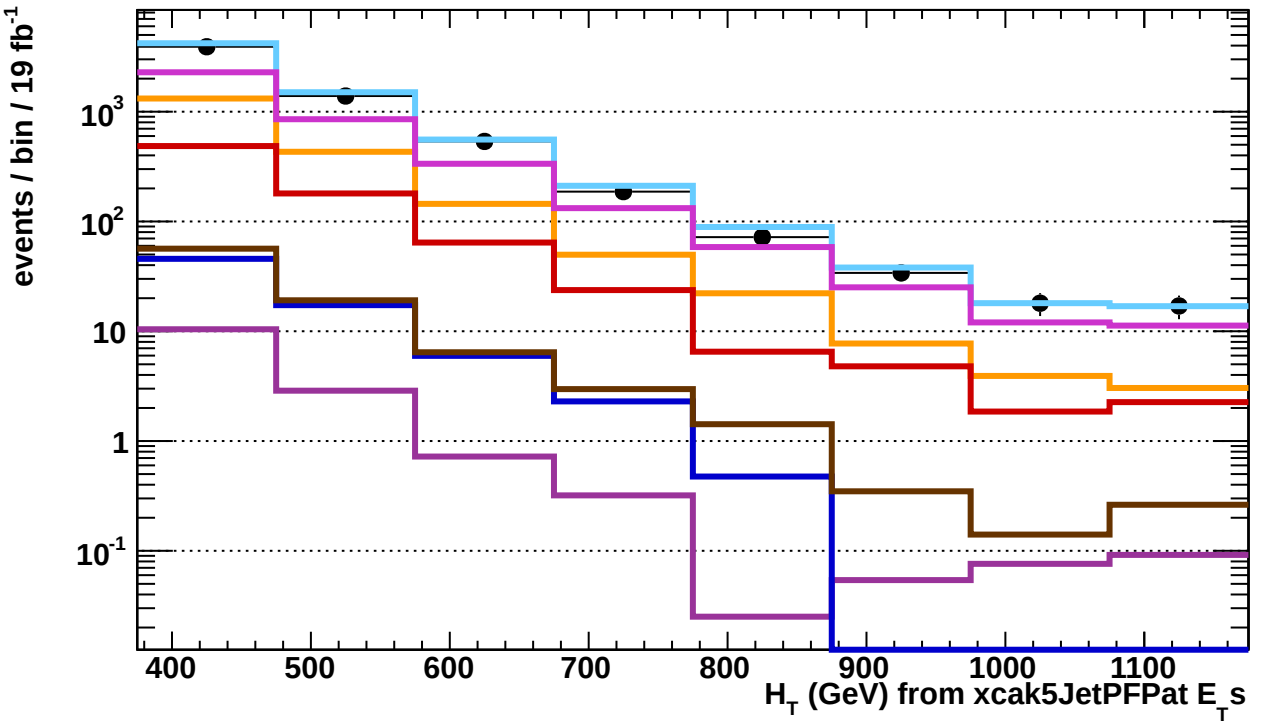

xcak5JetPFSumEtPat_eq1b
Entries 1017
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 1017
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.


xcak5JetPFSumEtPat_eq2b
Entries 281
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 281
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^2
10
1
160
180
200
220
240
260
280
300
320
340
360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_eq3b
Entries 29
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 29
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
10
1
10-1
160
180
200
220
240
260
280
300
320
340
360
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

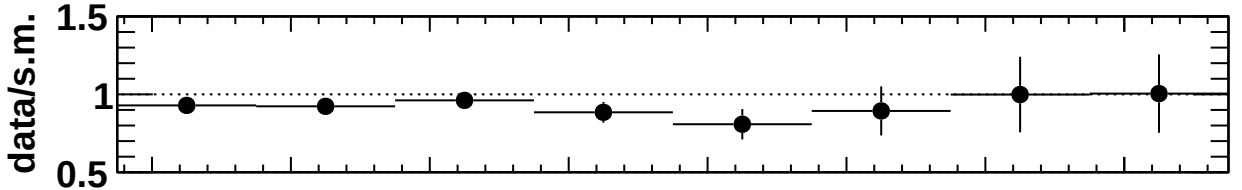

xcak5JetPFSumEtPat_ge4b
Entries 2
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 2
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
160 180 200 220 240 260 280 300 320 340 360
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

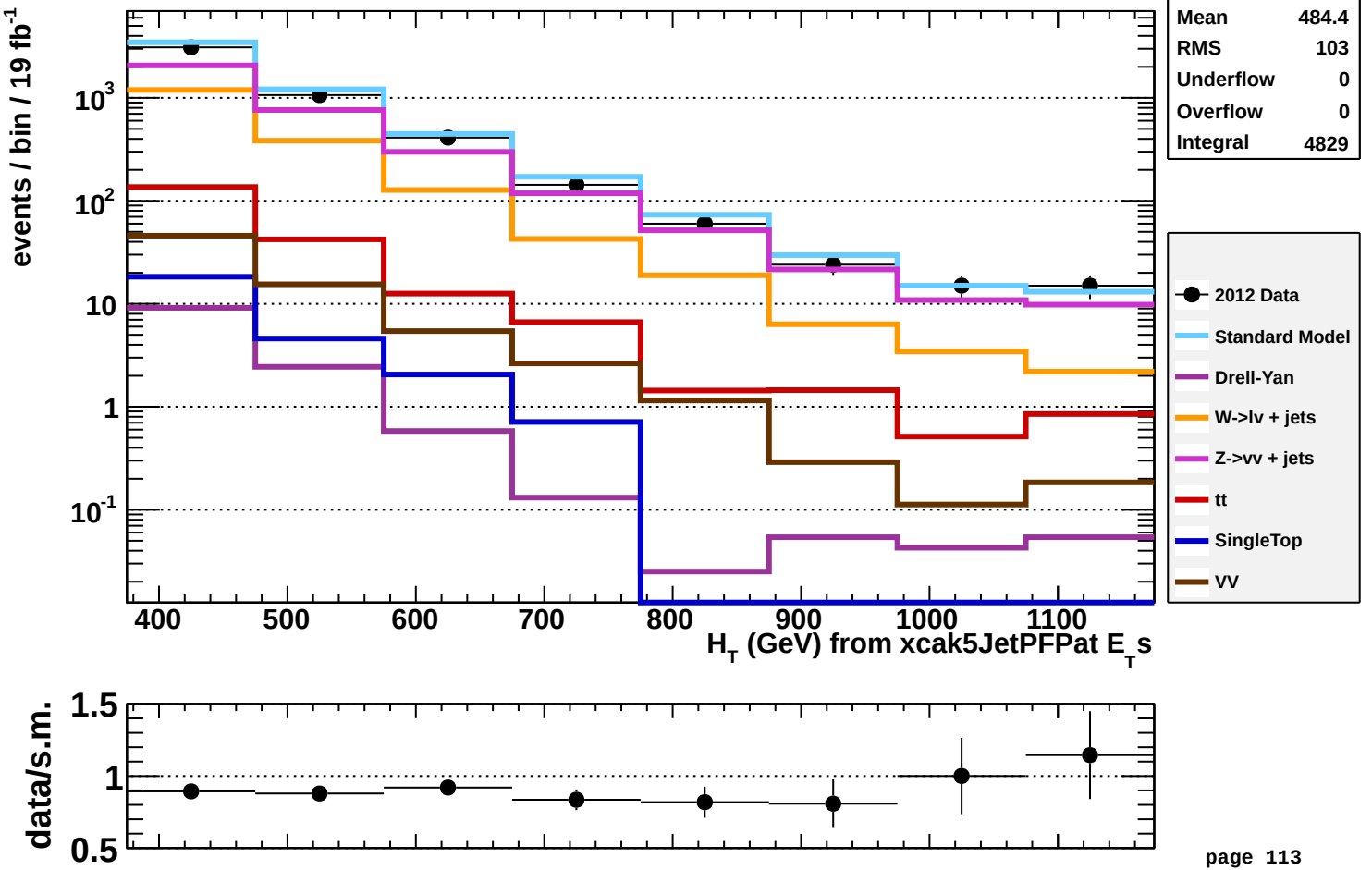

xcak5JetPFSumEtPat
Entries 6158
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 6158
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

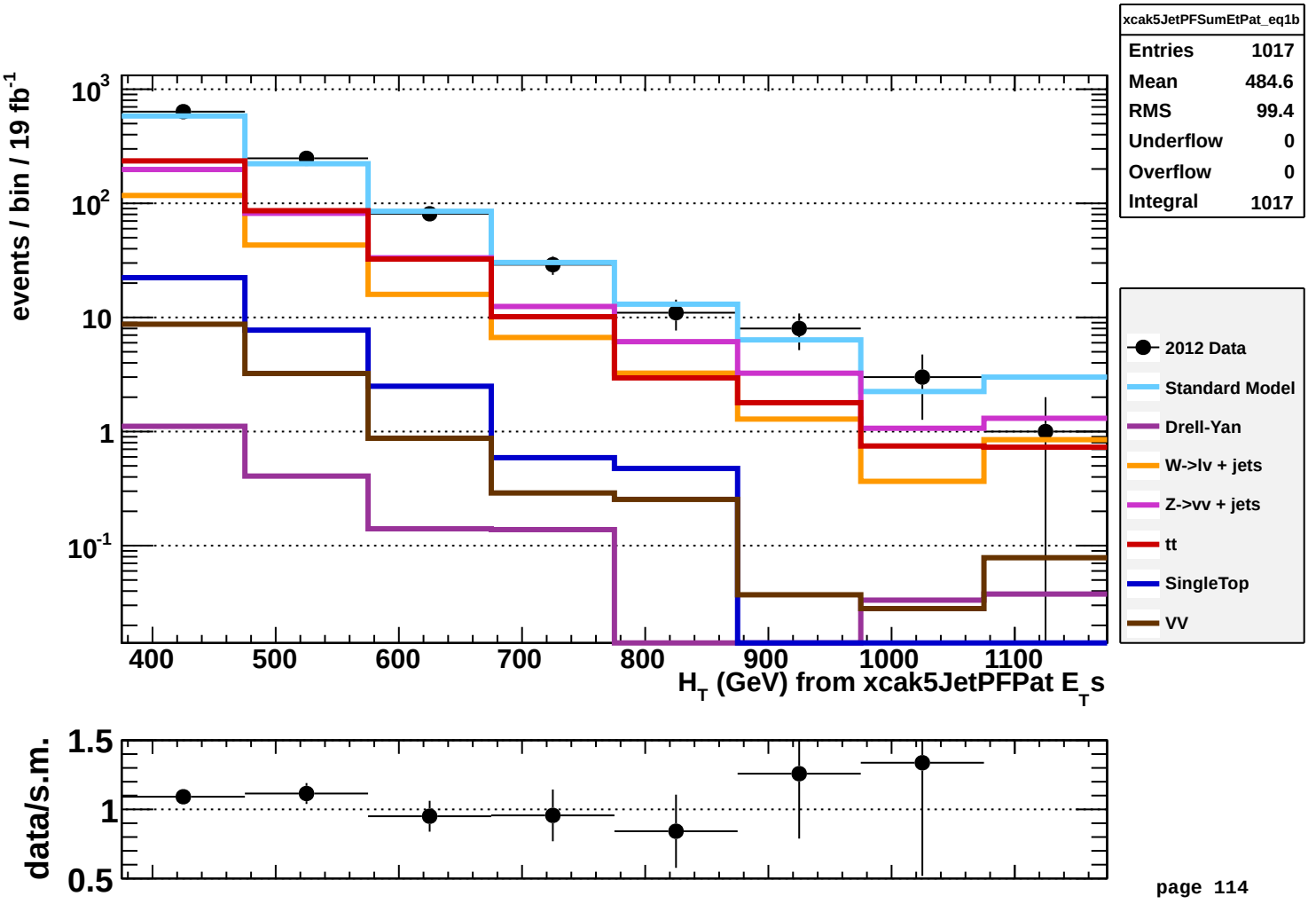


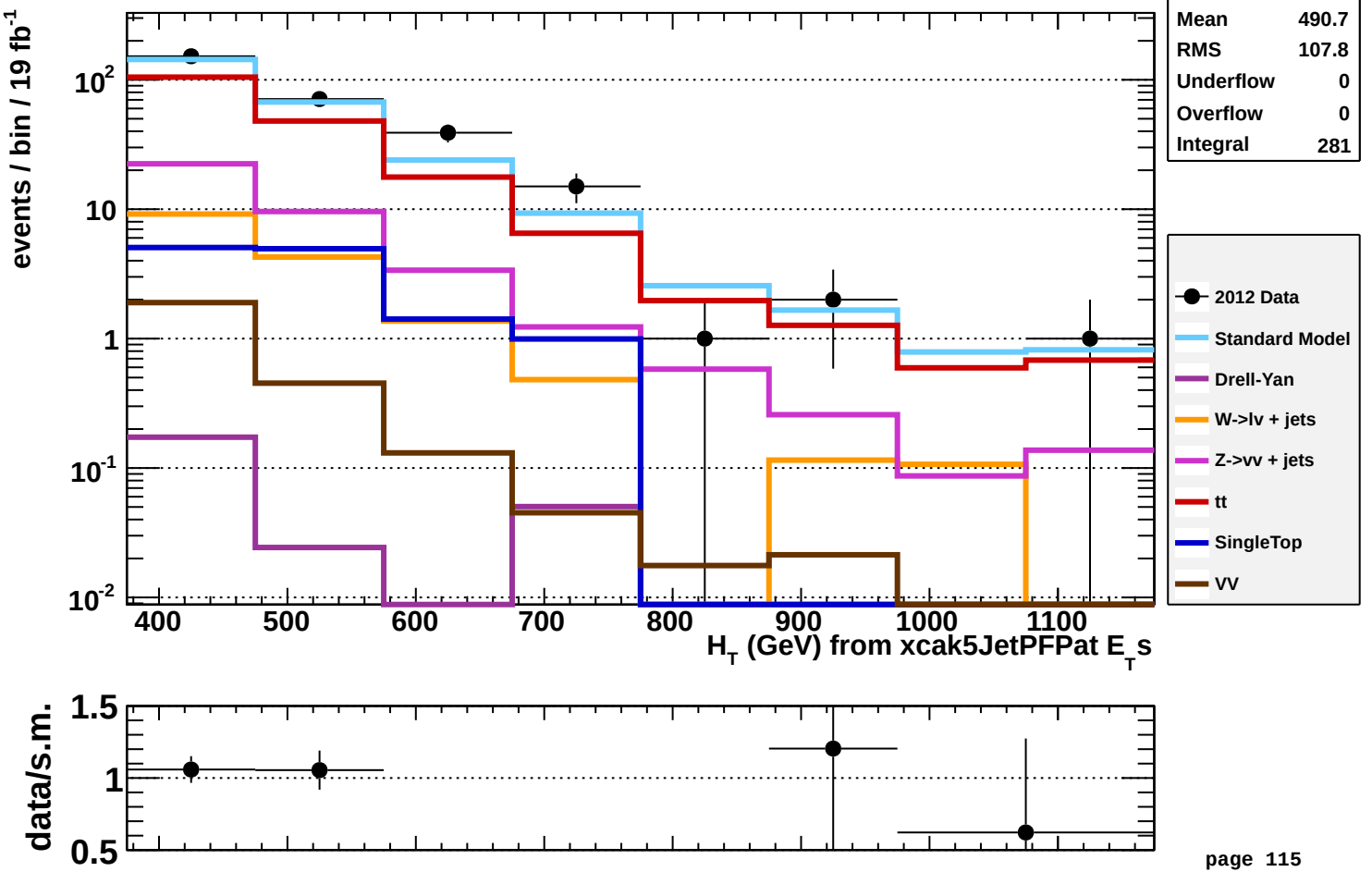
xcak5JetPFSumEtPat	
Entries	6158
Mean	485.2
RMS	102.5
Underflow	0
Overflow	0
Integral	6158

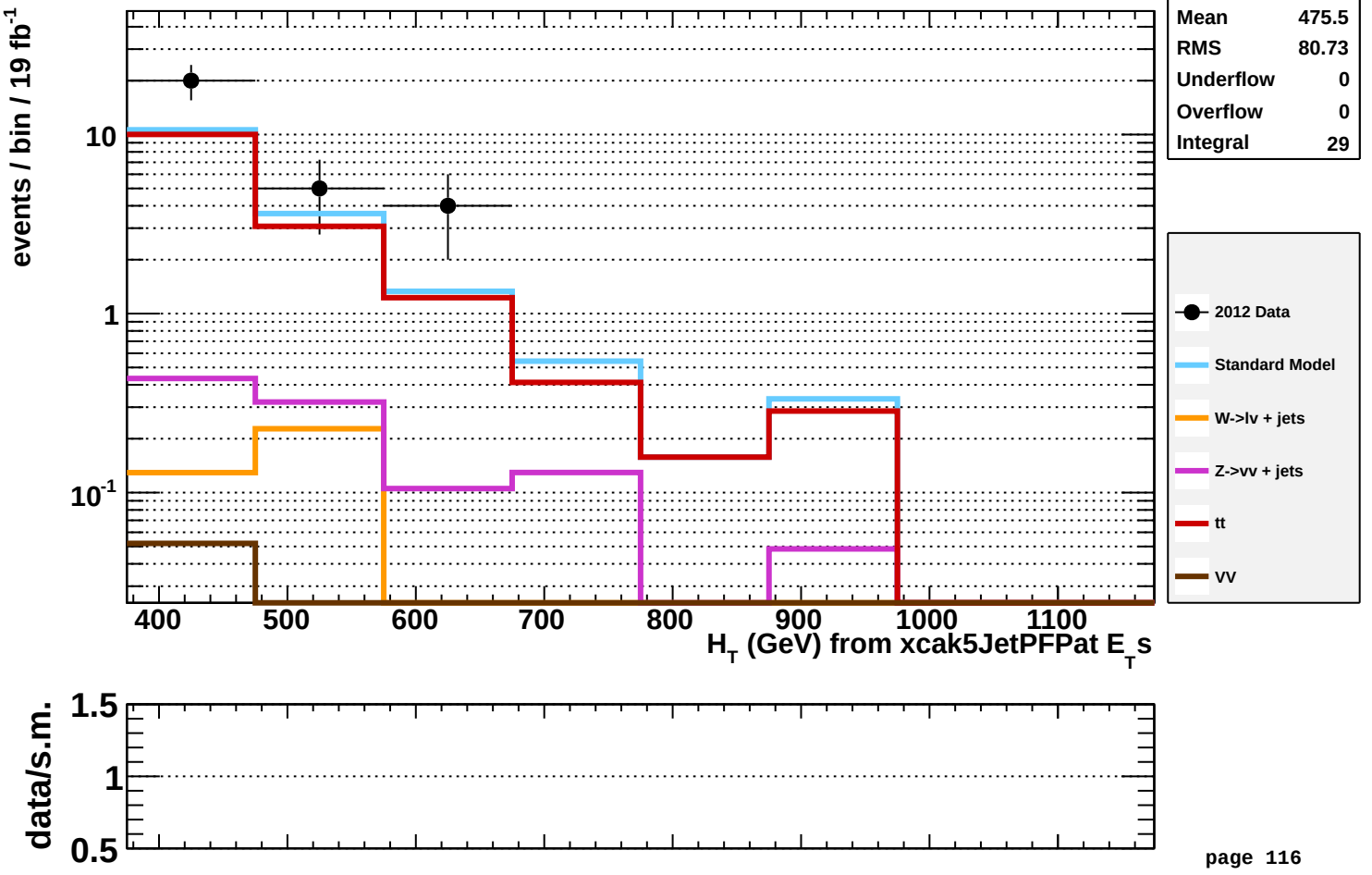
- 2012 Data
- Standard Model
- Drell-Yan
- W->lv + jets
- Z->vv + jets
- tt
- SingleTop
- VV

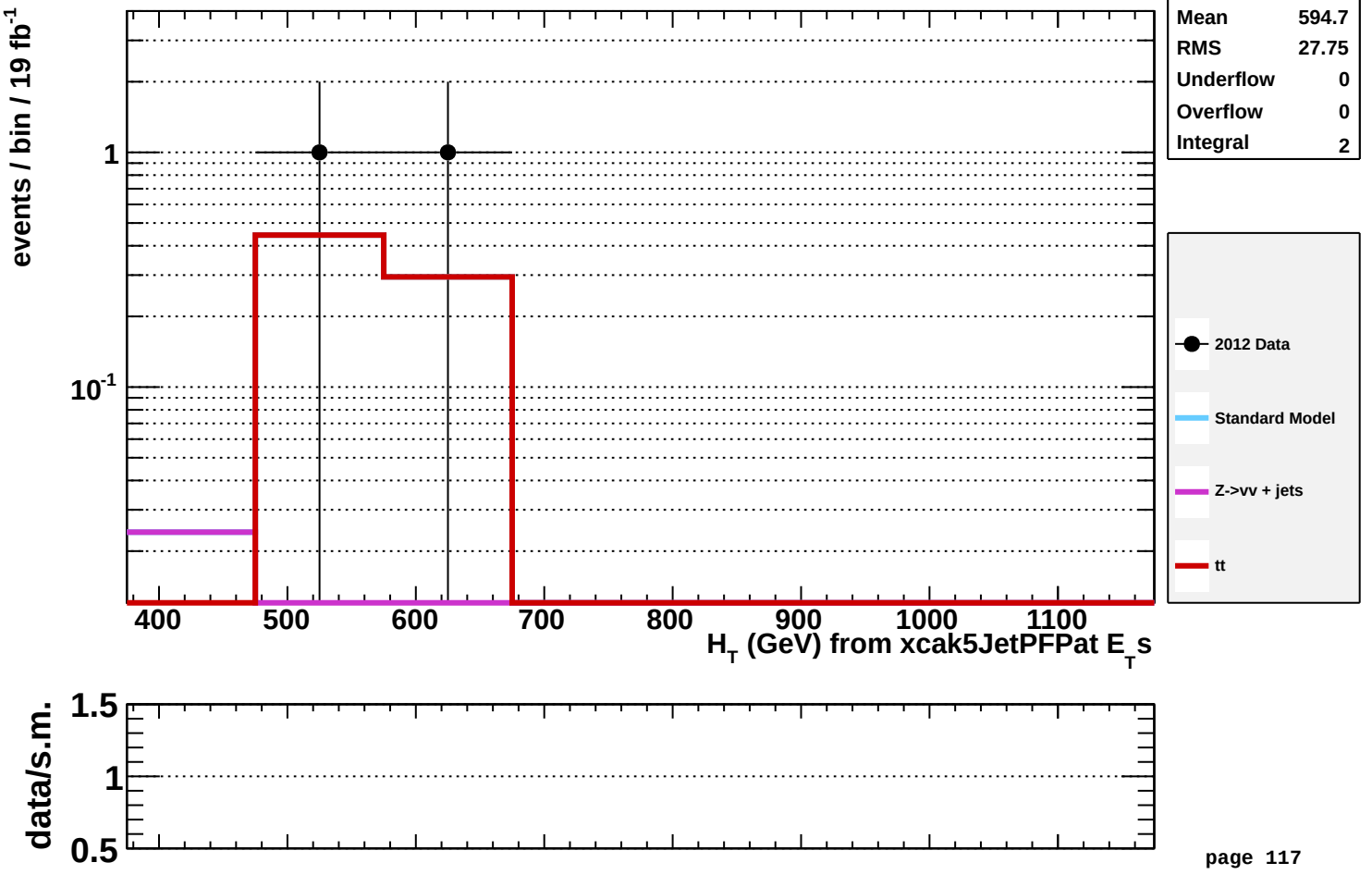


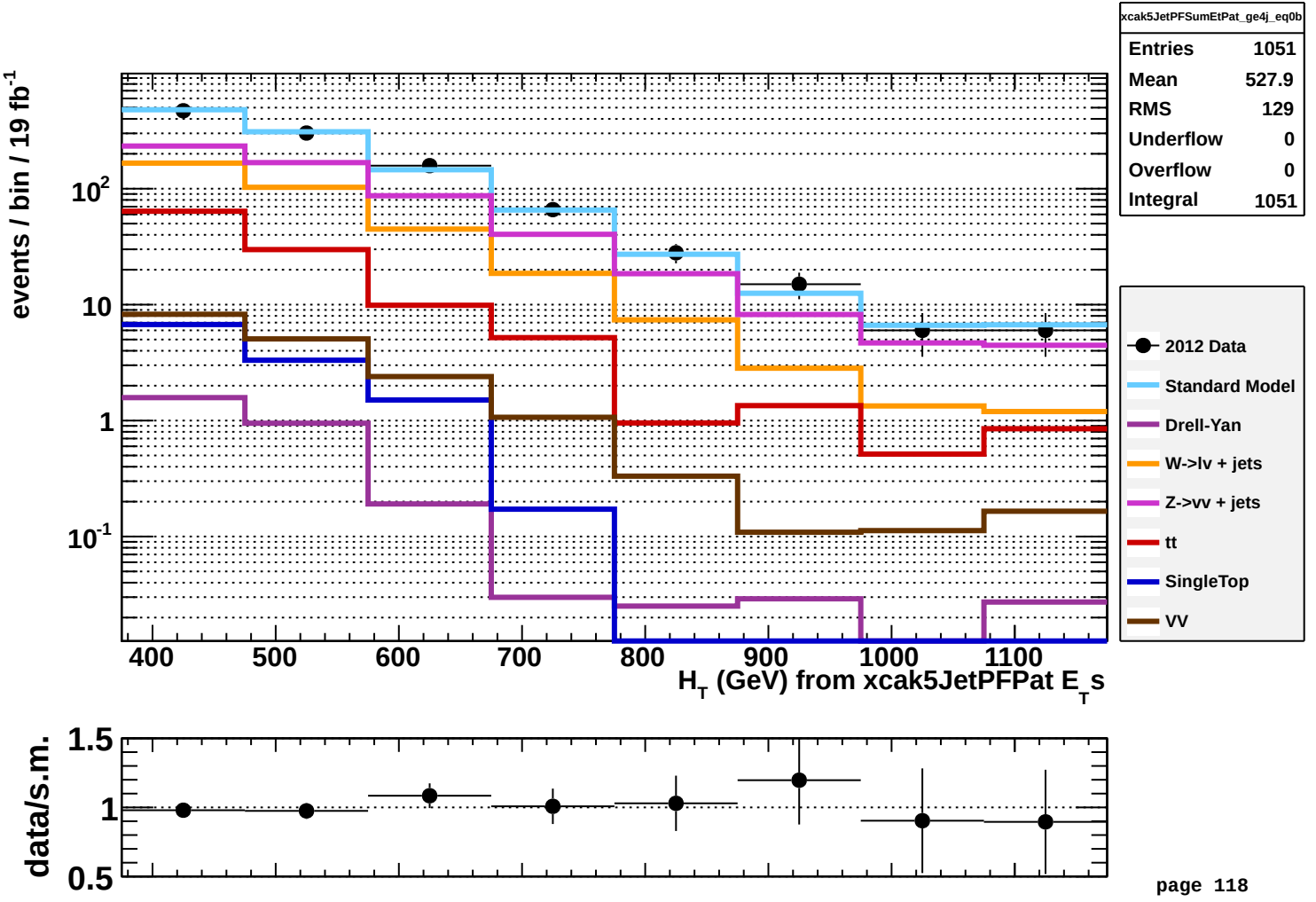

xcak5JetPFSumEtPat_eq0b
Entries 4829
Mean 484.4
RMS 103
Underflow 0
Overflow 0
Integral 4829
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.

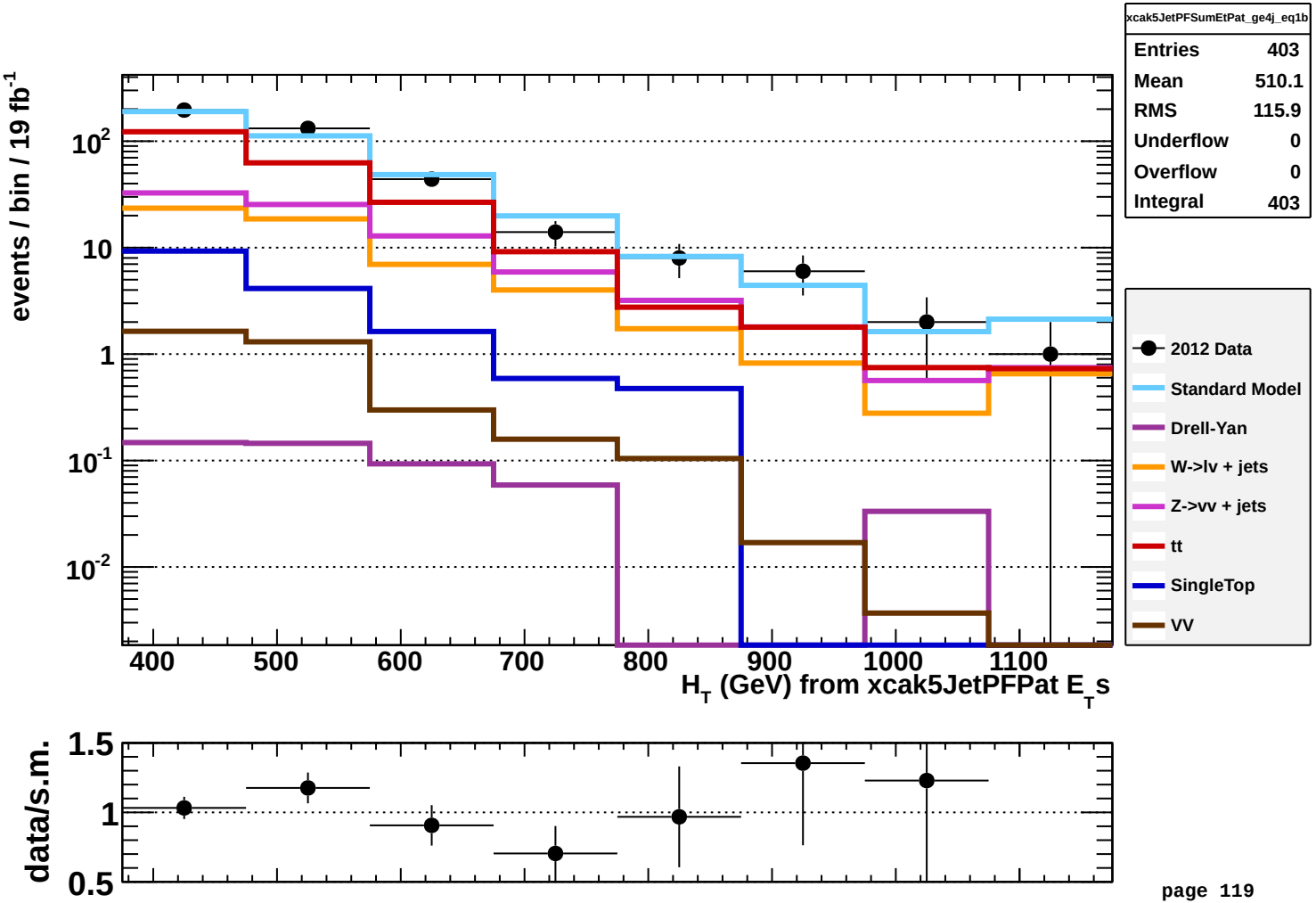

xcak5JetPFSumEtPat_eq1b
Entries 1017
Mean 484.6
RMS 99.4
Underflow 0
Overflow 0
Integral 1017
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.

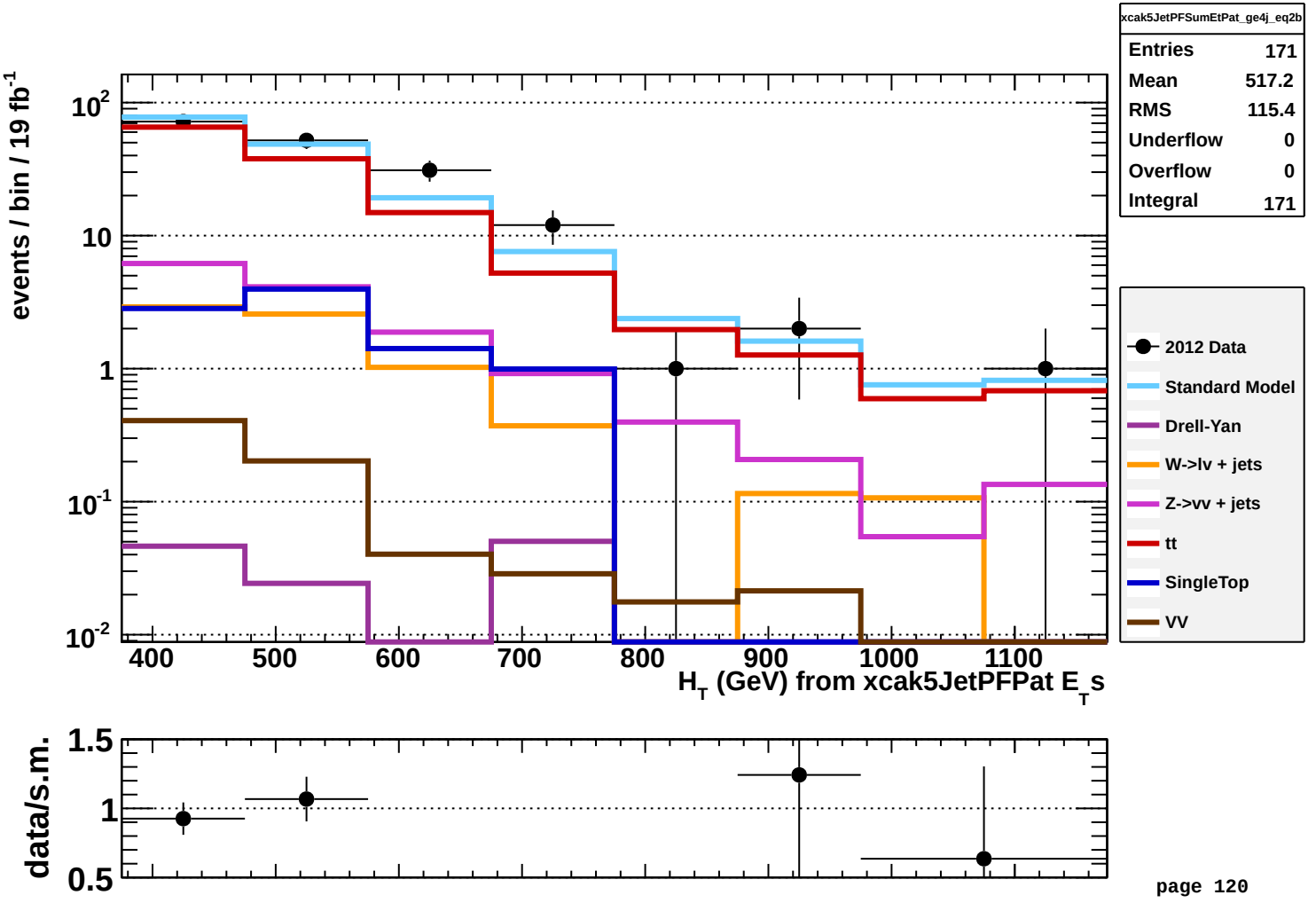

xcak5JetPFSumEtPat_eq2b
Entries 281
Mean 490.7
RMS 107.8
Underflow 0
Overflow 0
Integral 281
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^2
10
1
10^-1
10^-2
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

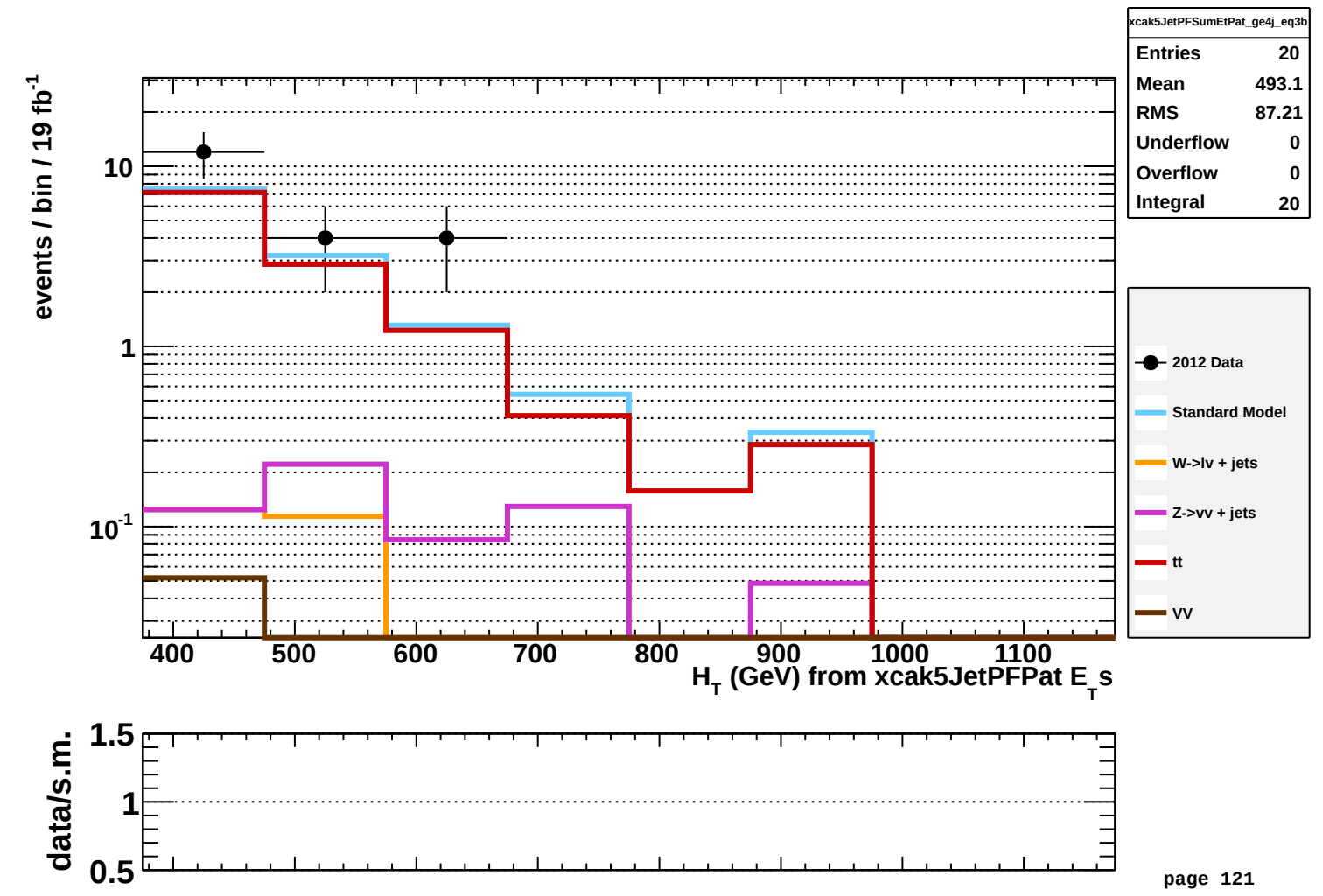

xcak5JetPFSumEtPat_eq3b
Entries 29
Mean 475.5
RMS 80.73
Underflow 0
Overflow 0
Integral 29
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
10
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

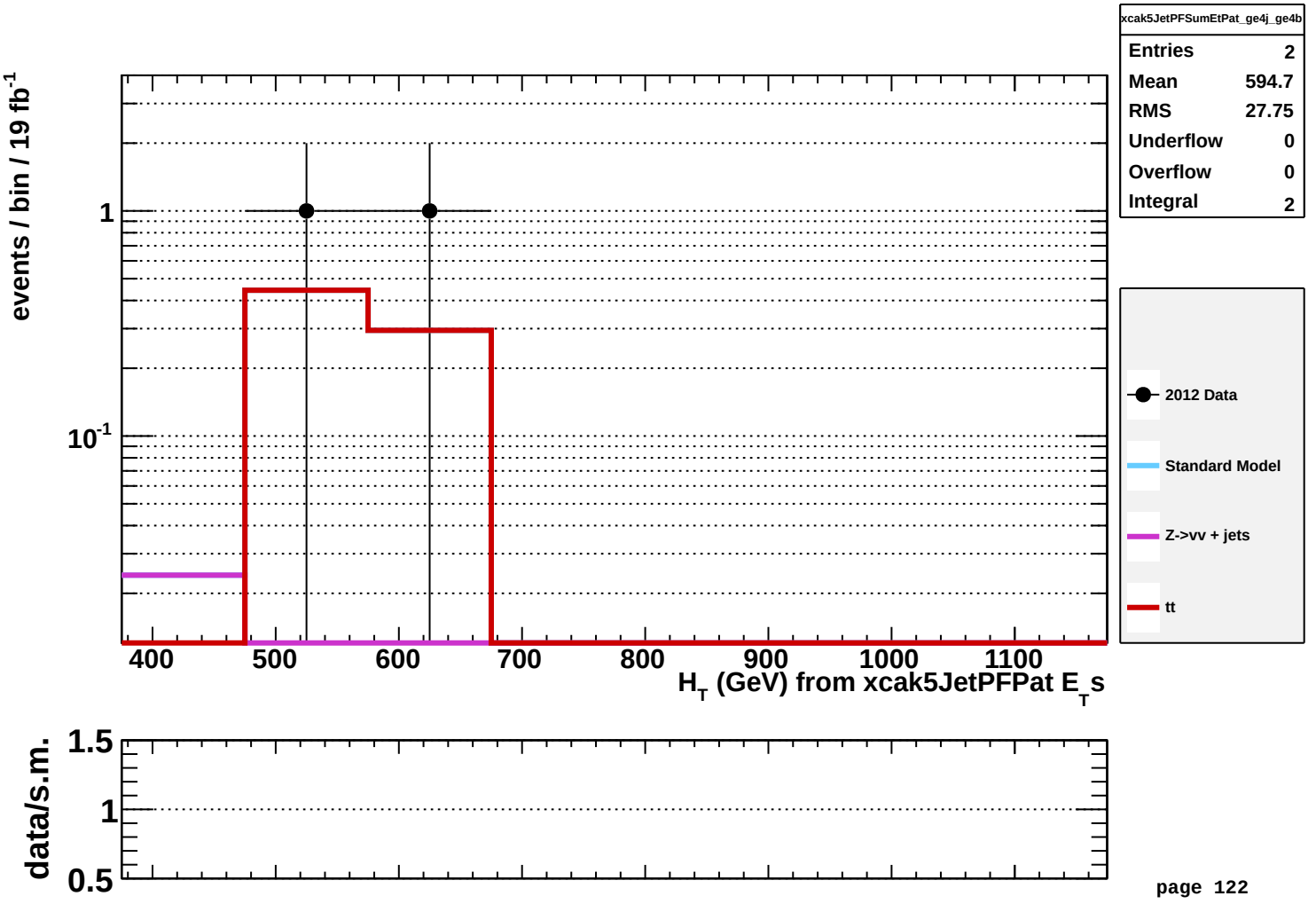

xcak5JetPFSumEtPat_ge4b
Entries 2
Mean 594.7
RMS 27.75
Underflow 0
Overflow 0
Integral 2
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

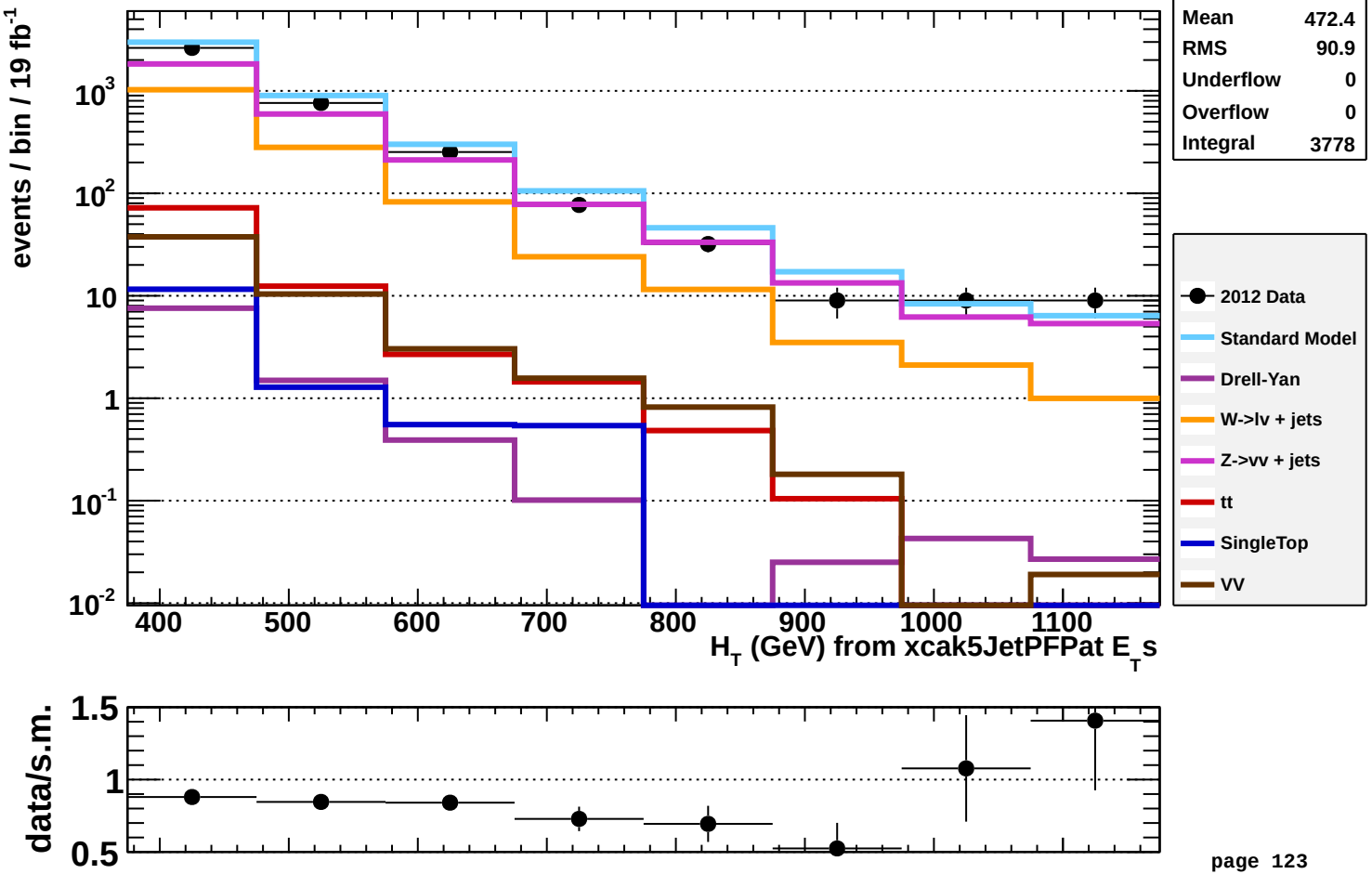

xcak5JetPFSumEtPat_ge4j_eq0b
Entries 1051
Mean 527.9
RMS 129
Underflow 0
Overflow 0
Integral 1051
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^2
10
1
10^-1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

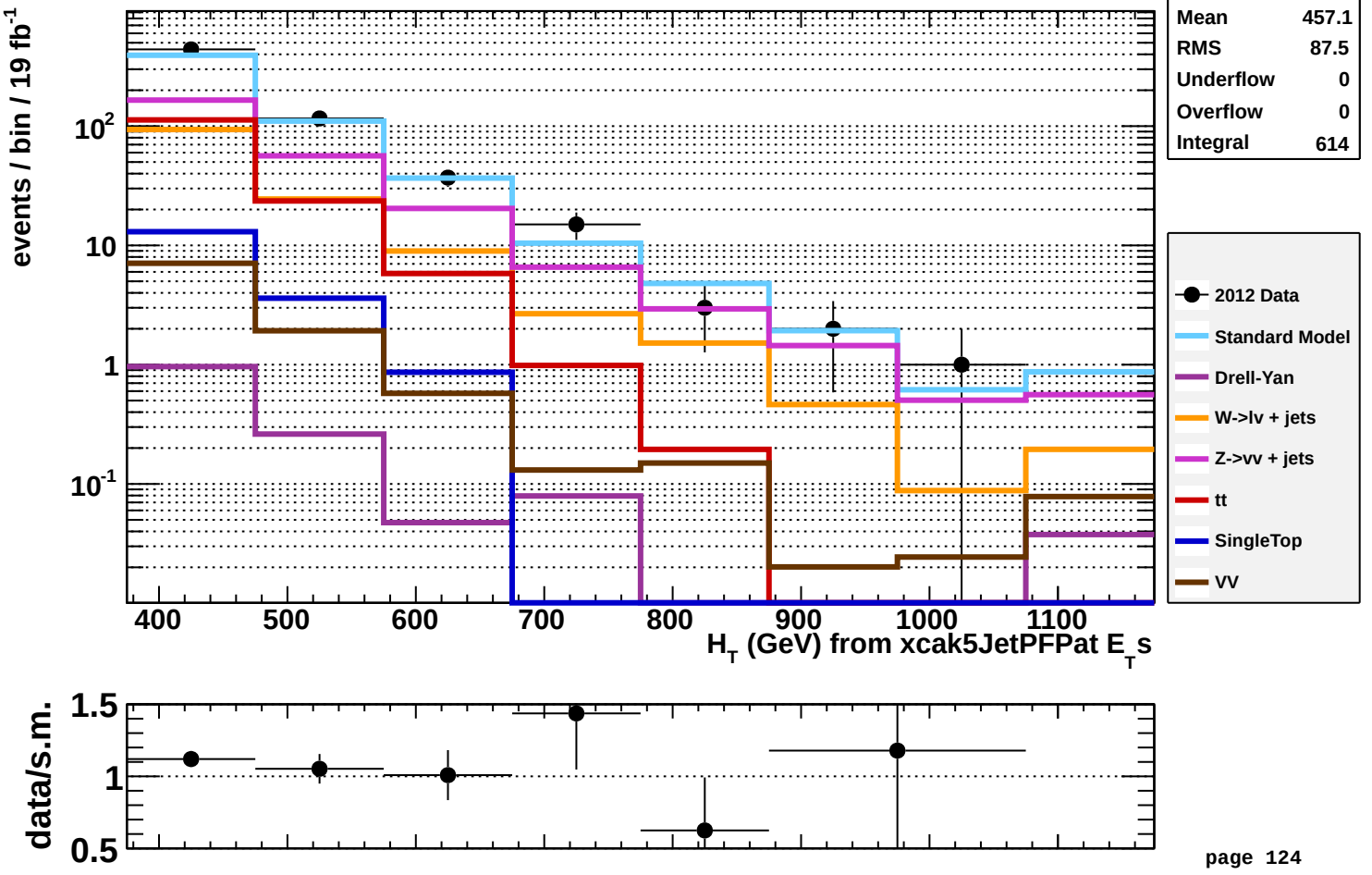

xcak5JetPFSumEtPat_ge4j_eq1b
Entries 403
Mean 510.1
RMS 115.9
Underflow 0
Overflow 0
Integral 403
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.

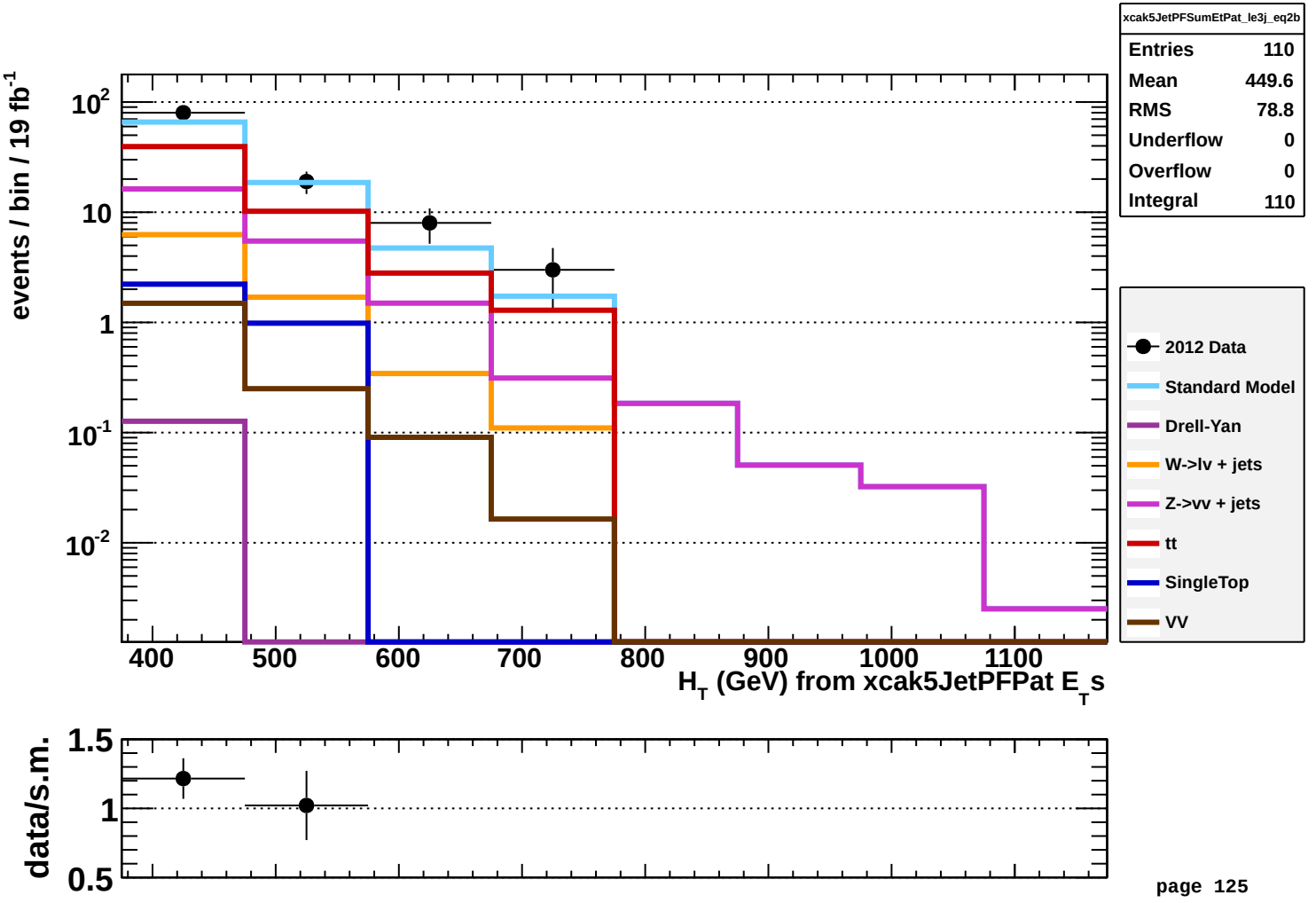

xcak5JetPFSumEtPat_ge4j_eq2b
Entries 171
Mean 517.2
RMS 115.4
Underflow 0
Overflow 0
Integral 171
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.

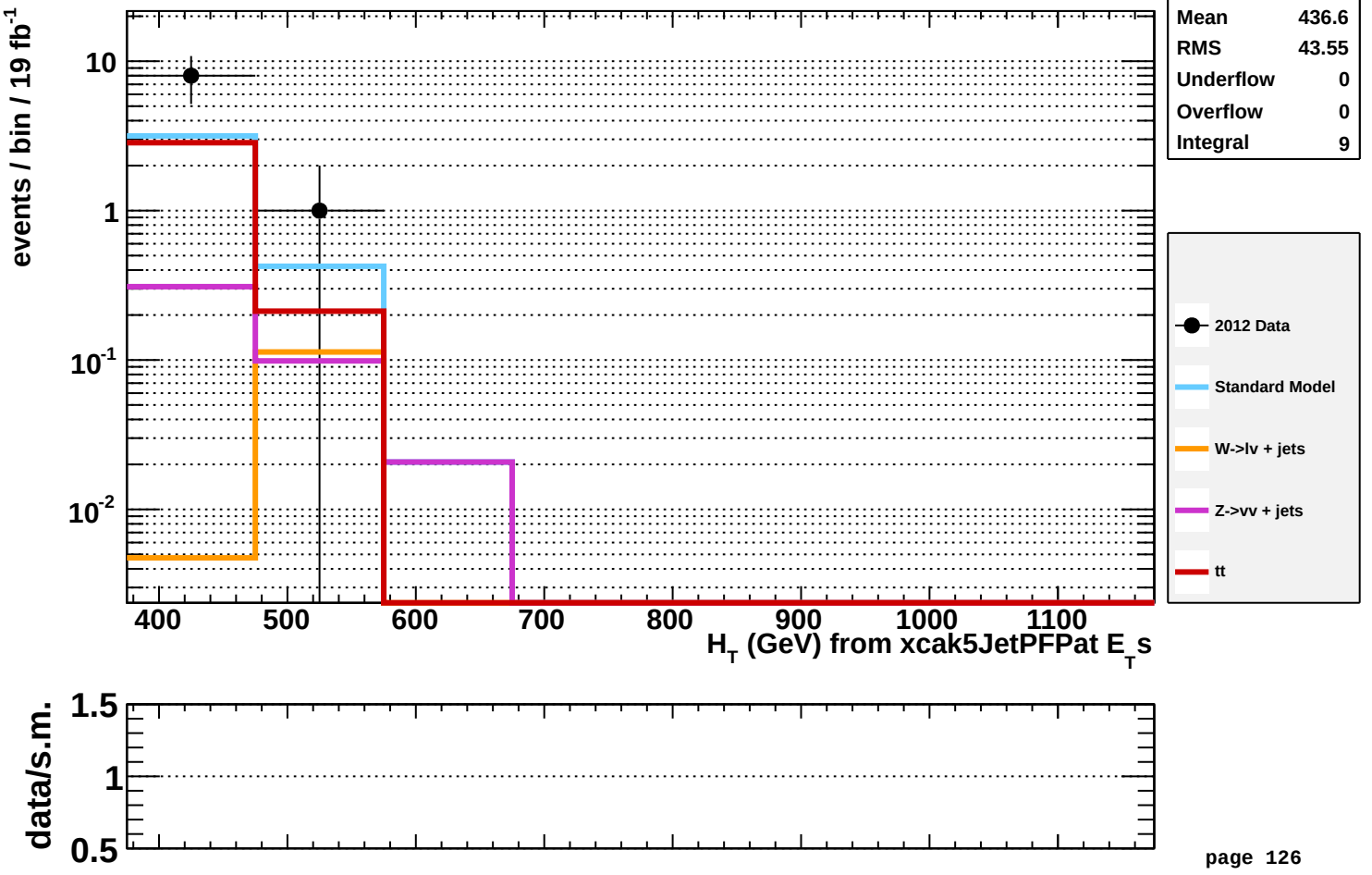

xcak5JetPFSumEtPat_ge4j_eq3b
Entries 20
Mean 493.1
RMS 87.21
Underflow 0
Overflow 0
Integral 20
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
10
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_ge4j_ge4b
Entries 2
Mean 594.7
RMS 27.75
Underflow 0
Overflow 0
Integral 2
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_le3j_eq0b
Entries 3778
Mean 472.4
RMS 90.9
Underflow 0
Overflow 0
Integral 3778
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.


xcak5JetPFSumEtPat_le3j_eq1b
Entries 614
Mean 457.1
RMS 87.5
Underflow 0
Overflow 0
Integral 614
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.


xcak5JetPFSumEtPat_le3j_eq2b
Entries 110
Mean 449.6
RMS 78.8
Underflow 0
Overflow 0
Integral 110
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.


xcak5JetPFSumEtPat_le3j_eq3b
Entries 9
Mean 436.6
RMS 43.55
Underflow 0
Overflow 0
Integral 9
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
events / bin / 19 fb-1
10
1
10-1
10-2
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPF <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	PFRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetPFAlphaTEtPat
G:	value	1.00<=hcalLaserEvent2012
H:	value	1.00<=ecalLaserCalibEvent2012

[jetSumPlots1]

J:	value	475.00<=xcak5JetPFSumEtPat
K:	value	575.00<=xcak5JetPFSumEtPat
L:	value	675.00<=xcak5JetPFSumEtPat
M:	value	775.00<=xcak5JetPFSumEtPat
N:	value	875.00<=xcak5JetPFSumEtPat
O:	value	975.00<=xcak5JetPFSumEtPat
P:	value	1075.00<=xcak5JetPFSumEtPat

	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
y:	9779118	9.427(4)e+5	2.497(4)e+4	2.473(2)e+5	8.736(5)e+4	4.797(3)e+5	7.93(2)e+4	2.397(5)e+4	10.374(6)
z:	9755783	7.843(4)e+5	1.138(3)e+4	1.572(2)e+5	8.735(5)e+4	4.312(3)e+5	7.42(2)e+4	2.295(5)e+4	12.439(7)
A:	9754104	7.838(4)e+5	1.136(3)e+4	1.571(2)e+5	8.734(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
B:	9753474	7.837(4)e+5	1.136(3)e+4	1.570(2)e+5	8.733(5)e+4	4.309(3)e+5	7.42(2)e+4	2.294(5)e+4	12.445(7)
C:	1858922	2.351(2)e+5	3.48(2)e+3	6.33(1)e+4	4.425(4)e+4	9.98(1)e+4	1.853(9)e+4	5.81(2)e+3	7.905(9)
D:	678926	1.404(1)e+5	1.96(1)e+3	4.752(9)e+4	3.748(4)e+4	4.228(9)e+4	8.28(6)e+3	2.84(2)e+3	4.837(8)
E:	639480	1.399(1)e+5	1.96(1)e+3	4.737(9)e+4	3.737(4)e+4	4.213(9)e+4	8.25(6)e+3	2.83(2)e+3	4.571(8)
F:	6173	6.64(2)e+3	14.6(8)	1.98(2)e+3	3.71(1)e+3	7.7(1)e+2	72(6)	87(2)	0.93(1)
G:	6173	-	-	-	-	-	-	-	
H:	6158	-	-	-	-	-	-	-	

[jetSumPlots1]

J:	2253	2.44(1)e+3	4.2(3)	663(9)	1429(6)	283(7)	26(3)	31(1)	0.93(2)
K:	864	931(8)	1.3(2)	231(5)	575(4)	103(5)	9(2)	11.6(9)	0.93(3)
L:	328	373(5)	0.6(1)	87(3)	239(2)	39(3)	3(1)	5.1(6)	0.88(5)
M:	141	162(3)	0.25(8)	37(2)	107(2)	15(2)	0.5(5)	2.2(4)	0.87(8)
N:	69	73(2)	0.22(8)	15(1)	48(1)	9(1)	0(0)	0.8(2)	0.9(1)
O:	35	35(1)	0.17(7)	7.0(8)	23.3(8)	4.1(10)	-	0.4(1)	1.0(2)
P:	17	17(1)	9(5)e-2	3.0(5)	11.3(5)	2.3(7)	-	0.3(1)	1.0(3)