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	497657	5.12e+05
T_t_powheg.puWeight.bTagWeight	3710227	3.82e+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	9840431	1.01e+07
WZ_py6.puWeight.bTagWeight	9872283	1.02e+07
ZZ_py6.puWeight.bTagWeight	9783907	1.01e+07
dyll_HT_400ToInf_M-50.puWeight.bTagWeight	2663789	2.75e+06
dyll_HT_200To400_M-50.puWeight.bTagWeight	6892776	7.11e+06
dyll_HT_10To200_M-50.puWeight.bTagWeight	8111523	8.36e+06
ttbar_CT10_powheg.puWeight.bTagWeight.topPtWeight	26406722	2.72e+07
wj_lv_mg_ht_400ToInf_LO.puWeight.bTagWeight.xsWeight	4875846	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	9591770	1.27e+07
wj_lv_mg_ht_10To150_LO.puWeight.bTagWeight	13992013	1.44e+07
wj_lv_mg_ht_150To200_LO.puWeight.bTagWeight.xsWeight	20694208	2.36e+07
zinv_mg_ht_400Inf.puWeight.bTagWeight	4887709	5.03e+06
zinv_mg_ht_200_400.puWeight.bTagWeight	9649619	9.93e+06
zinv_mg_ht_100_200.puWeight.bTagWeight	9860059	1.01e+07
zinv_mg_ht_50_100.puWeight.bTagWeight	23727998	2.44e+07

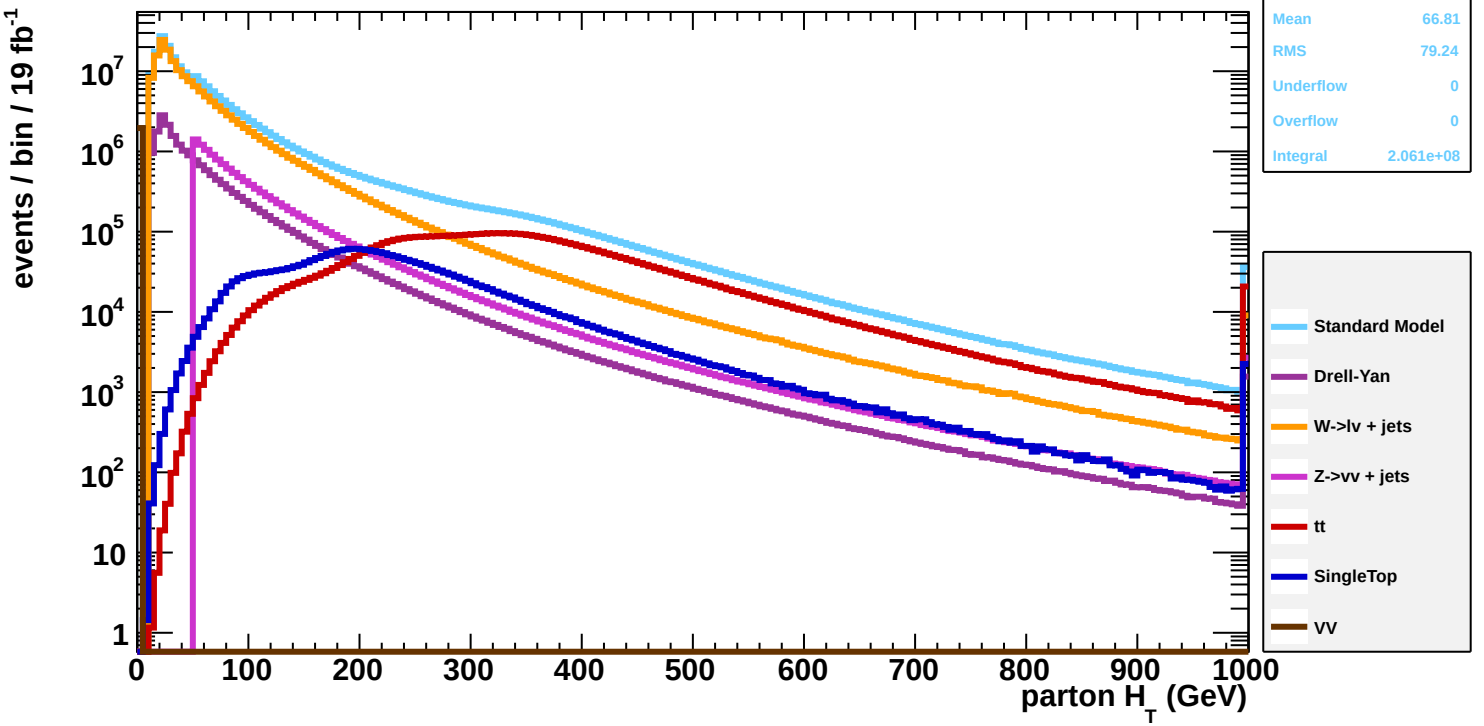
file created at Tue Sep 16 01:14:04 2014

Calculables	
ecalLaserCalibEvent2012	pass Ecal laser calibration 2012 event filter
electronIndicesNonIsoPat	pass ptMin & id; fail iso
electronIndicesOtherPat	pass ptMin; fail id
electronIndicesPat	pt>10.0; (2012 Veto)
electronIndicesUnmatchedPat	electronIndicesOtherPat; no dR<0.5 match in ak5JetCorrectedP4Pat
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
muonIdPog2012LoosePat	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Loose_Muon
muonIdPog2012TightPat	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Tight_Muon
muonIndicesNonIsoPat	pass ptMin & id; fail iso
muonIndicesOtherPat	pass ptMin; fail id
muonIndicesPat	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 ak5JetCorrectedP4Pat
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	muonPatDR<0.50; electronPatDR<0.50; photonPatDR<0.50
xcak5JetDeadEcalDRlowPtPat	xcak5JetPat; nXtal>=10; cracks checked
xcak5JetIndicesBtagged2Pat	(>0.679)
xcak5JetIndicesOtherPat	pass ptMin; fail jetID or etaMax
xcak5JetIndicesPat	pT>=50.0 GeV; |eta|<3.0; JetIDloose
xcak5JetIndiceshighPtPat	pT>=50.0 GeV; |eta|<3.0; JetIDloose
xcak5JetIndiceslowPtPat	pT>=30.0 GeV; |eta|<3.0; JetIDloose

Calculables	(imperfect)	absent	calc	leaf	sltr
	NONE				

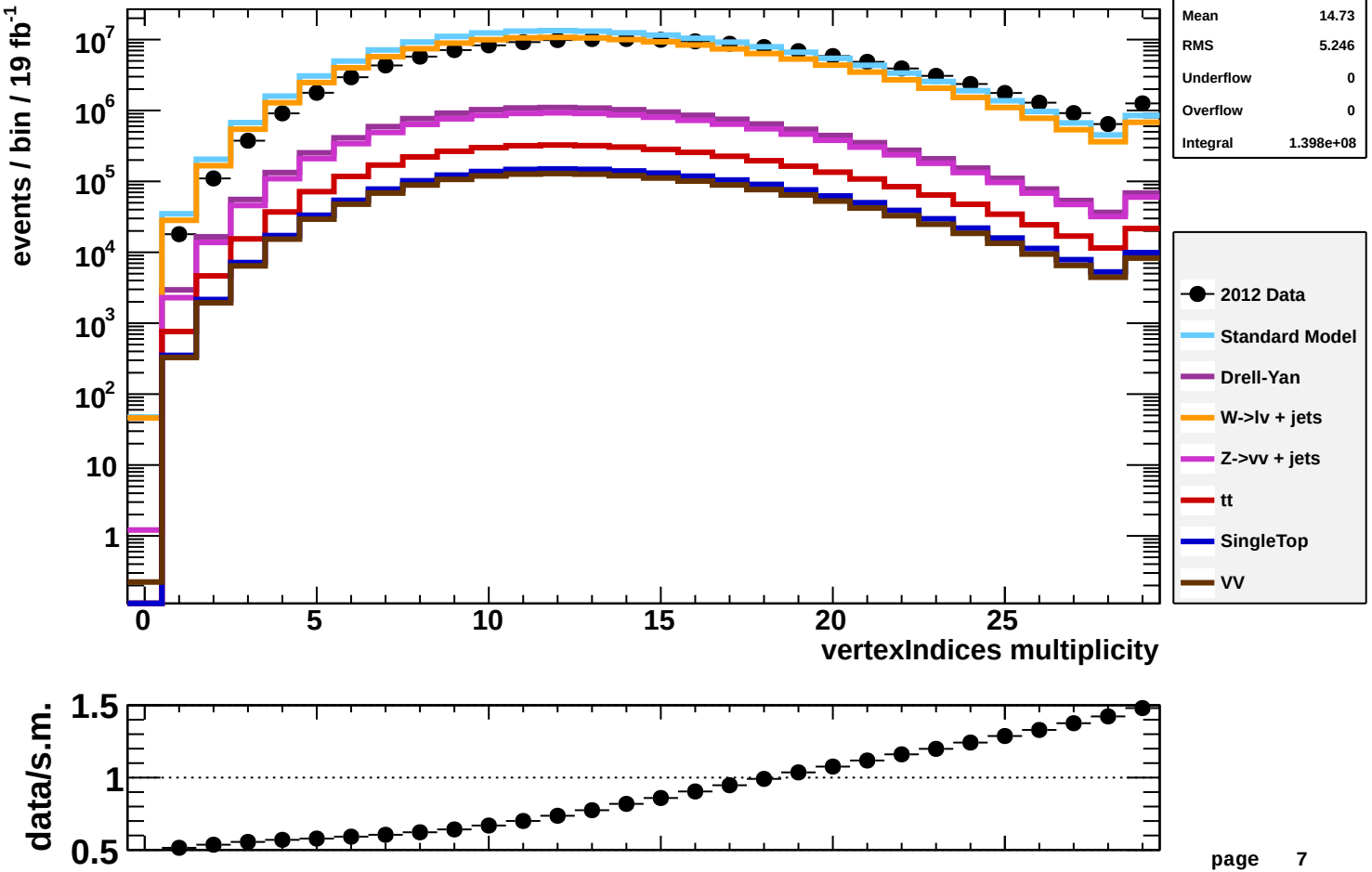
| a: master master

	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
a:	161925770	2.0615(4)e+8	1.9455(7)e+7	1.6448(4)e+8	1.2572(2)e+7	5.383(1)e+6	2.3011(9)e+6	1.9578(4)e+6	0.7855(2)


genPartonHT
Entries 1.812749e+08
Mean 66.81
RMS 79.24
Underflow 0
Overflow 0
Integral 2.061e+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

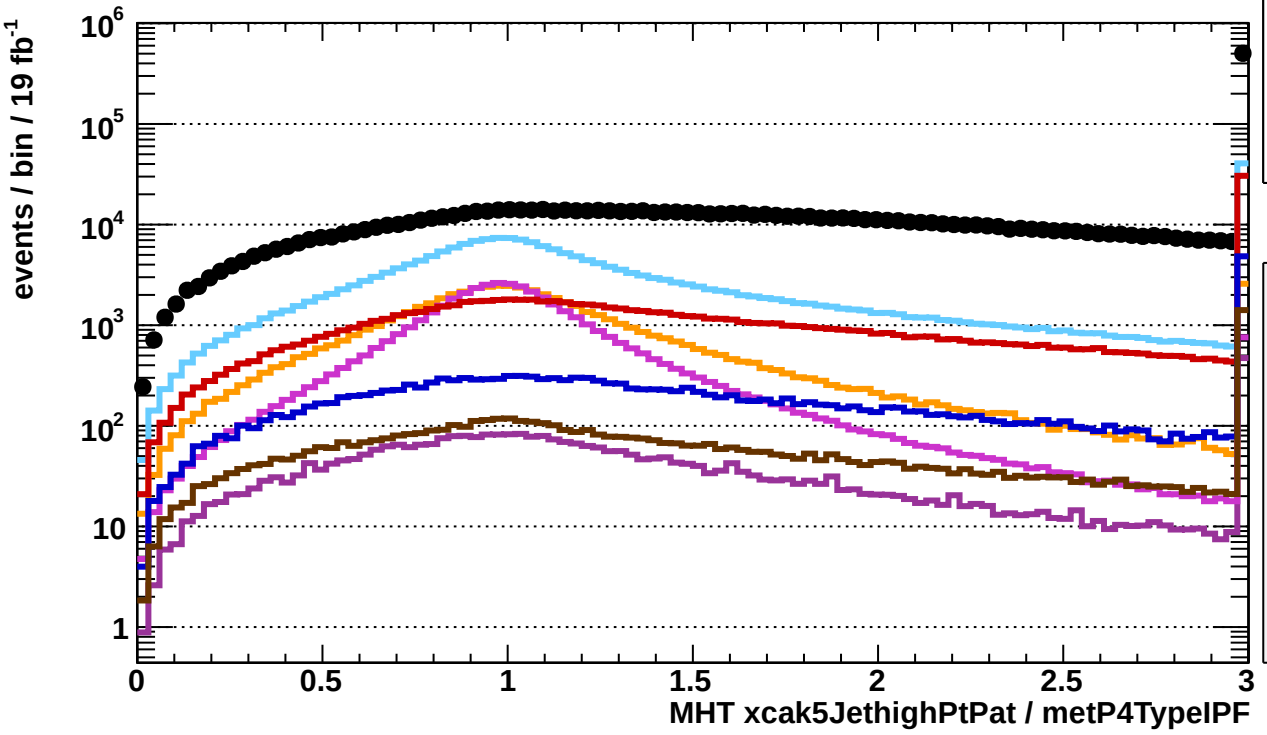
a:	master	master
b:	monster	<=10 tracks or >0.25 good fraction
c:	hbheNoise	hbheNoise
d:	value	beamHaloCSCTightHaloId<=0.00
e:	value	1.00<=trackingFailureFilterFlag
f:	value	1.00<=hcalLaserEventFilterFlag
g:	value	1.00<=ecalDeadCellTPFilterFlag
h:	value	1.00<=eeBadScFilterFlag
i:	value	1.00<=inconsistentMuonPFCandidateFilterFlag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

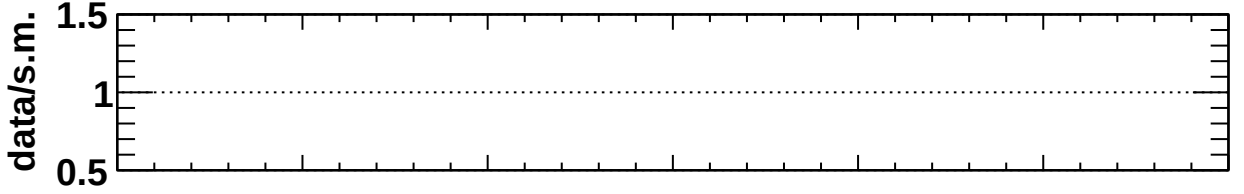
	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
a:	161925770	2.0615(4)e+8	1.9455(7)e+7	1.6448(4)e+8	1.2572(2)e+7	5.383(1)e+6	2.3011(9)e+6	1.9578(4)e+6	0.7855(2)
b:	161924972	2.0615(4)e+8	1.9455(7)e+7	1.6448(4)e+8	1.2572(2)e+7	5.383(1)e+6	2.3011(9)e+6	1.9578(4)e+6	0.7855(2)
c:	160439157	-	-	-	-	-	-	-	
d:	159670356	2.0612(4)e+8	1.9453(7)e+7	1.6446(4)e+8	1.2570(2)e+7	5.382(1)e+6	2.3007(9)e+6	1.9576(4)e+6	0.7746(2)
e:	159667829	2.0612(4)e+8	1.9453(7)e+7	1.6446(4)e+8	1.2570(2)e+7	5.382(1)e+6	2.3007(9)e+6	1.9576(4)e+6	0.7746(2)
f:	159667108	-	-	-	-	-	-	-	
g:	159142618	2.0610(4)e+8	1.9450(7)e+7	1.6445(4)e+8	1.2570(2)e+7	5.380(1)e+6	2.3002(9)e+6	1.9573(4)e+6	0.7722(2)
h:	159142615	2.0610(4)e+8	1.9450(7)e+7	1.6445(4)e+8	1.2570(2)e+7	5.380(1)e+6	2.3002(9)e+6	1.9573(4)e+6	0.7722(2)
i:	159111052	2.0605(4)e+8	1.9436(7)e+7	1.6441(4)e+8	1.2570(2)e+7	5.377(1)e+6	2.2996(9)e+6	1.9565(4)e+6	0.7722(2)
j:	159107069	2.0603(4)e+8	1.9431(7)e+7	1.6439(4)e+8	1.2570(2)e+7	5.376(1)e+6	2.2994(9)e+6	1.9563(4)e+6	0.7723(2)
k:	139758551	1.7021(4)e+8	1.3986(6)e+7	1.3673(4)e+8	1.1793(2)e+7	4.144(-)e+6	1.9129(9)e+6	1.6423(4)e+6	0.8211(2)


vertexIndicesMultiplicity
Entries 1.397585e+08
Mean 14.73
RMS 5.246
Underflow 0
Overflow 0
Integral 1.398e+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	xcak5JetPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPat
u:	multiplicity	0 <= xcak5JetIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetIndicesPat
w:	multiplicity	0 <= xcak5JetIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPat <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500

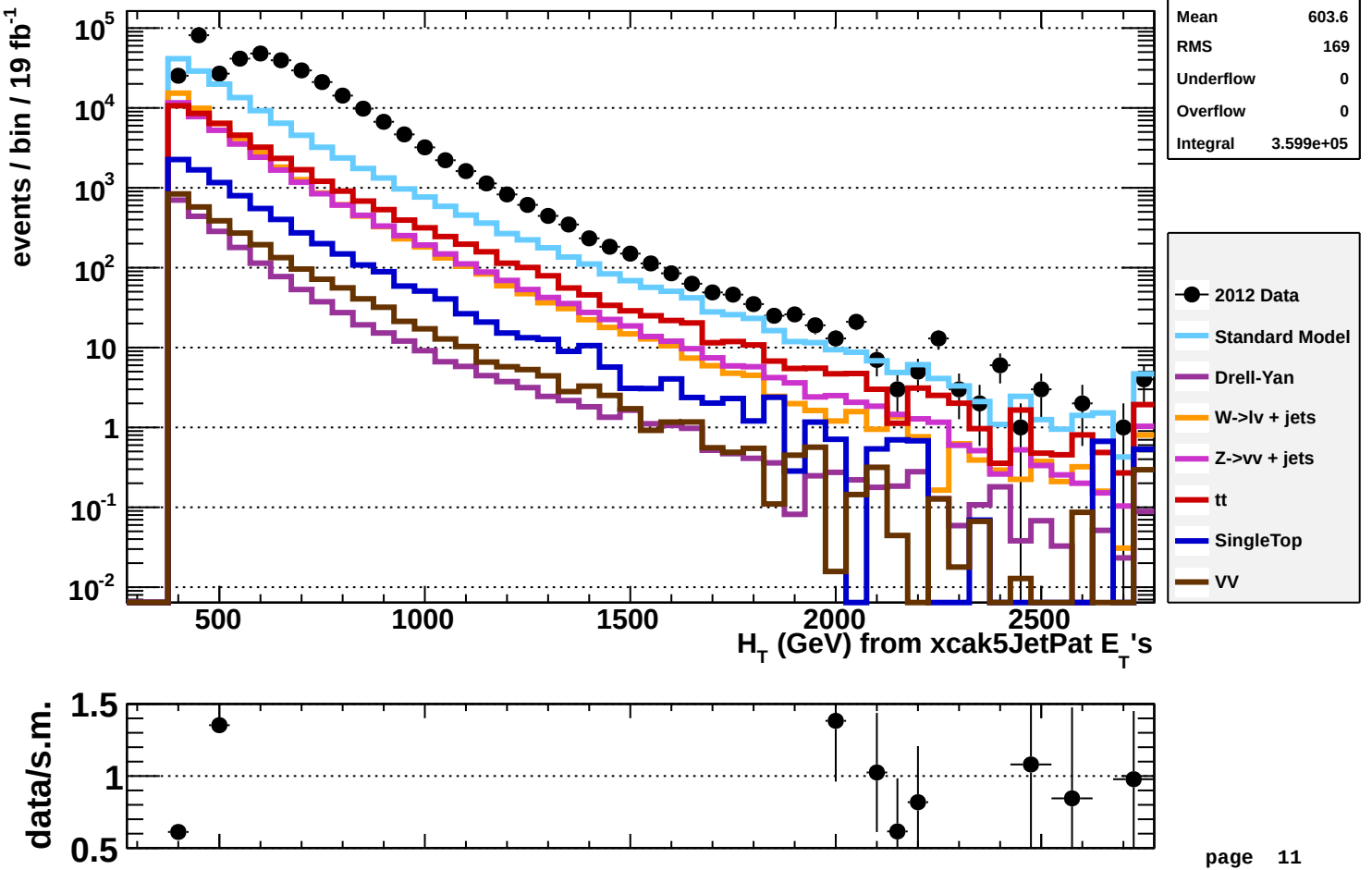
	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
l:	139758551	1.7021(4)e+8	1.3986(6)e+7	1.3673(4)e+8	1.1793(2)e+7	4.144(-)e+6	1.9129(9)e+6	1.6423(4)e+6	0.8211(2)
m:	139758363	-	-	-	-	-	-	-	
n:	139631006	-	-	-	-	-	-	-	
o:	9399833	-	-	-	-	-	-	-	
p:	9226526	4.965(2)e+7	3.777(3)e+6	3.313(2)e+7	6.331(1)e+6	3.936(-)e+6	1.5400(8)e+6	9.404(3)e+5	0.18582(9)
q:	9071768	1.1435(6)e+7	7.20(1)e+5	6.269(5)e+6	1.6026(6)e+6	2.1400(7)e+6	4.993(4)e+5	2.045(1)e+5	0.7933(5)
r:	7630042	2.542(-)e+6	1.215(2)e+5	9.909(8)e+5	2.373(1)e+5	9.405(5)e+5	1.893(3)e+5	6.268(8)e+4	3.001(2)
s:	7233757	1.2330(5)e+6	4.455(6)e+4	3.552(3)e+5	9.109(6)e+4	6.207(4)e+5	9.34(2)e+4	2.799(5)e+4	5.867(3)
t:	7220369	1.2238(5)e+6	4.415(6)e+4	3.533(3)e+5	9.104(6)e+4	6.146(4)e+5	9.28(2)e+4	2.792(5)e+4	5.900(3)
u:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
v:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
w:	6774586	1.1844(5)e+6	4.265(6)e+4	3.456(3)e+5	8.984(6)e+4	5.898(4)e+5	8.92(2)e+4	2.735(5)e+4	5.720(3)
x:	6742525	1.0119(5)e+6	2.676(5)e+4	2.539(2)e+5	8.981(6)e+4	5.315(3)e+5	8.37(2)e+4	2.618(5)e+4	6.663(4)
y:	6713053	1.0049(5)e+6	2.613(5)e+4	2.496(2)e+5	8.977(6)e+4	5.298(3)e+5	8.35(2)e+4	2.605(5)e+4	6.681(4)
z:	6688261	8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982	8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567	8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167	2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)

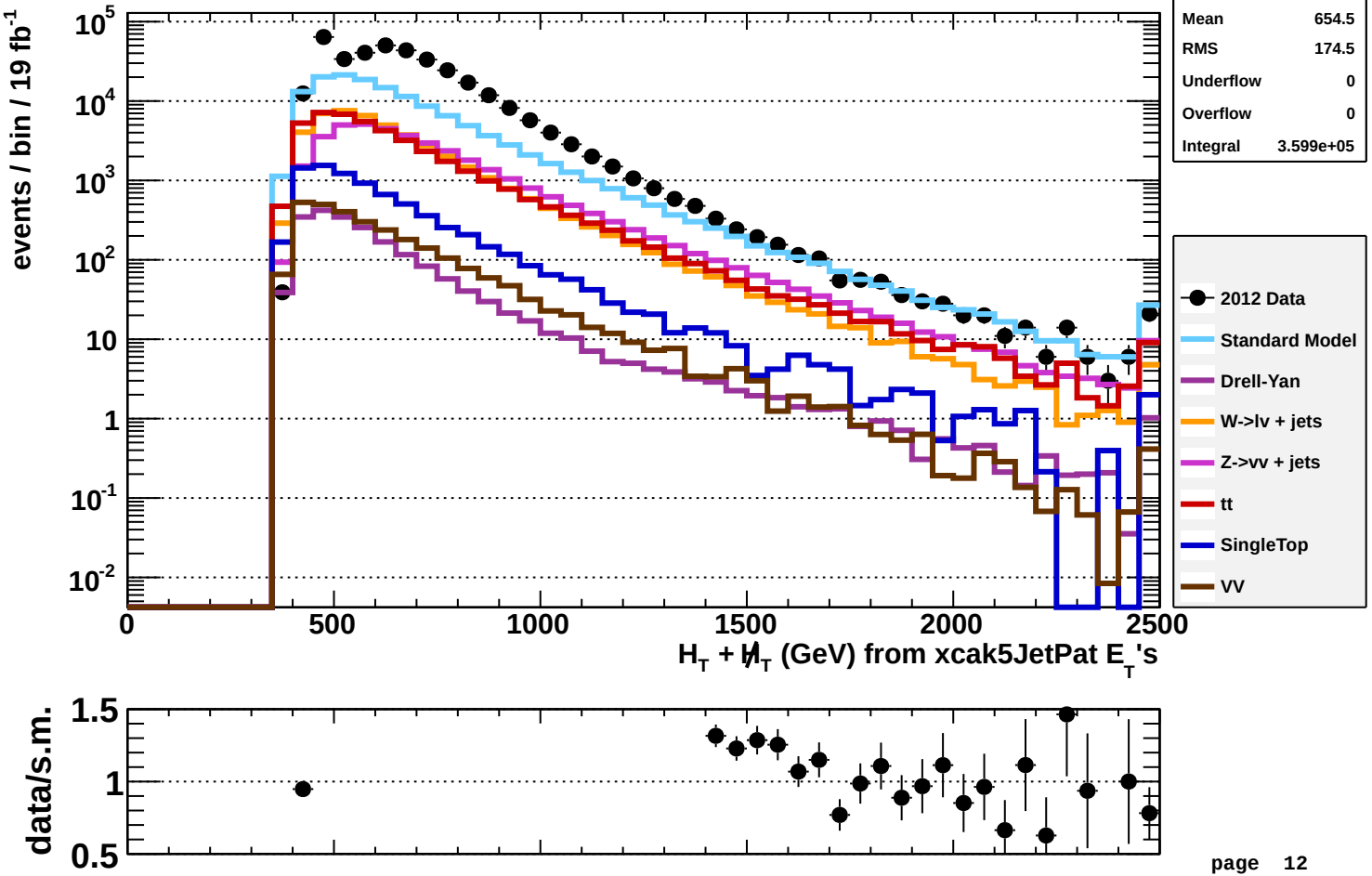

events / bin / 19 fb-1
MHT xcak5JethighPtPat / metP4TypeIPF
xcak5JetMhthighPtPatOvermetP4TypeIPF
Entries 1463167
Mean 2.049
RMS 0.8927
Underflow 0
Overflow 0
Integral 1.463e+06
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV

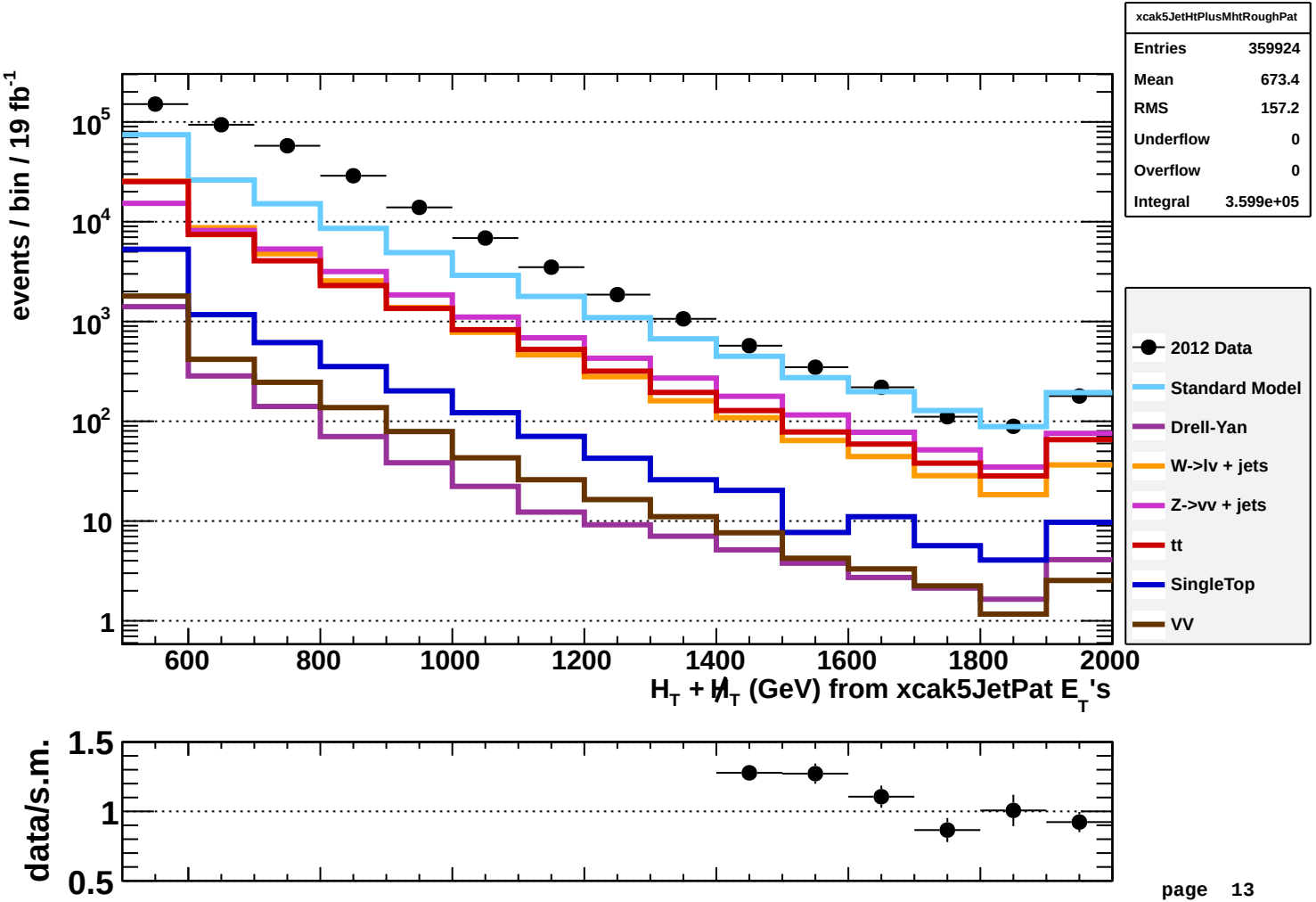

data/s.m.

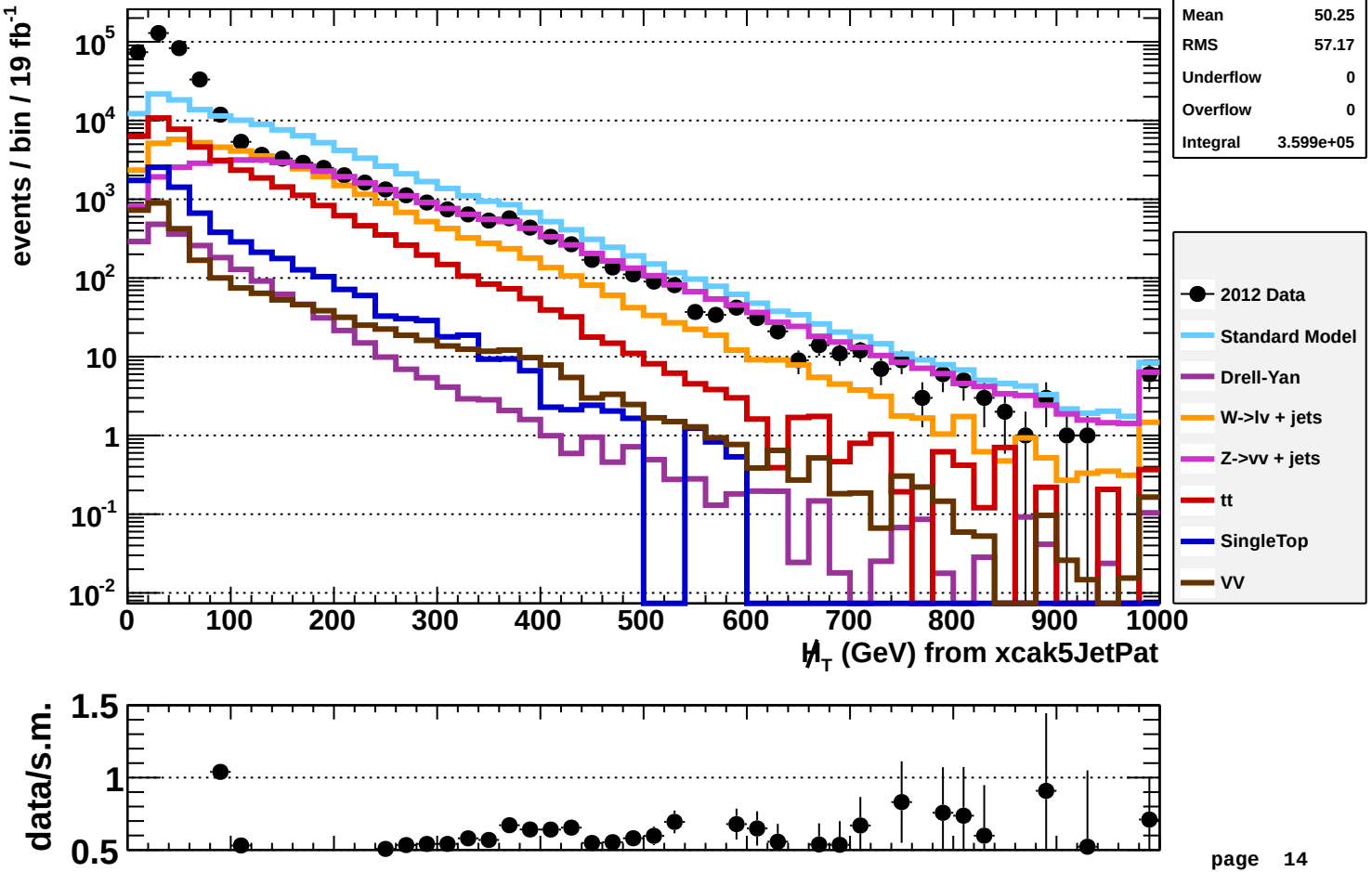
m:	l1Filter	L1Tech_BPTX_plus_AND_minus.v0
n:	physicsDeclaredFilter	physicsDeclaredFilter
o:	HTxTriggerMap	HTxTriggerMap
p:	jetEtaSelector	xcak5JetPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPat
u:	multiplicity	0 <= xcak5JetIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetIndicesPat
w:	multiplicity	0 <= xcak5JetIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPat <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500
\| D: | value | xcak5JetMhthighPtPatOvermetP4TypeIPF<=1.25 |

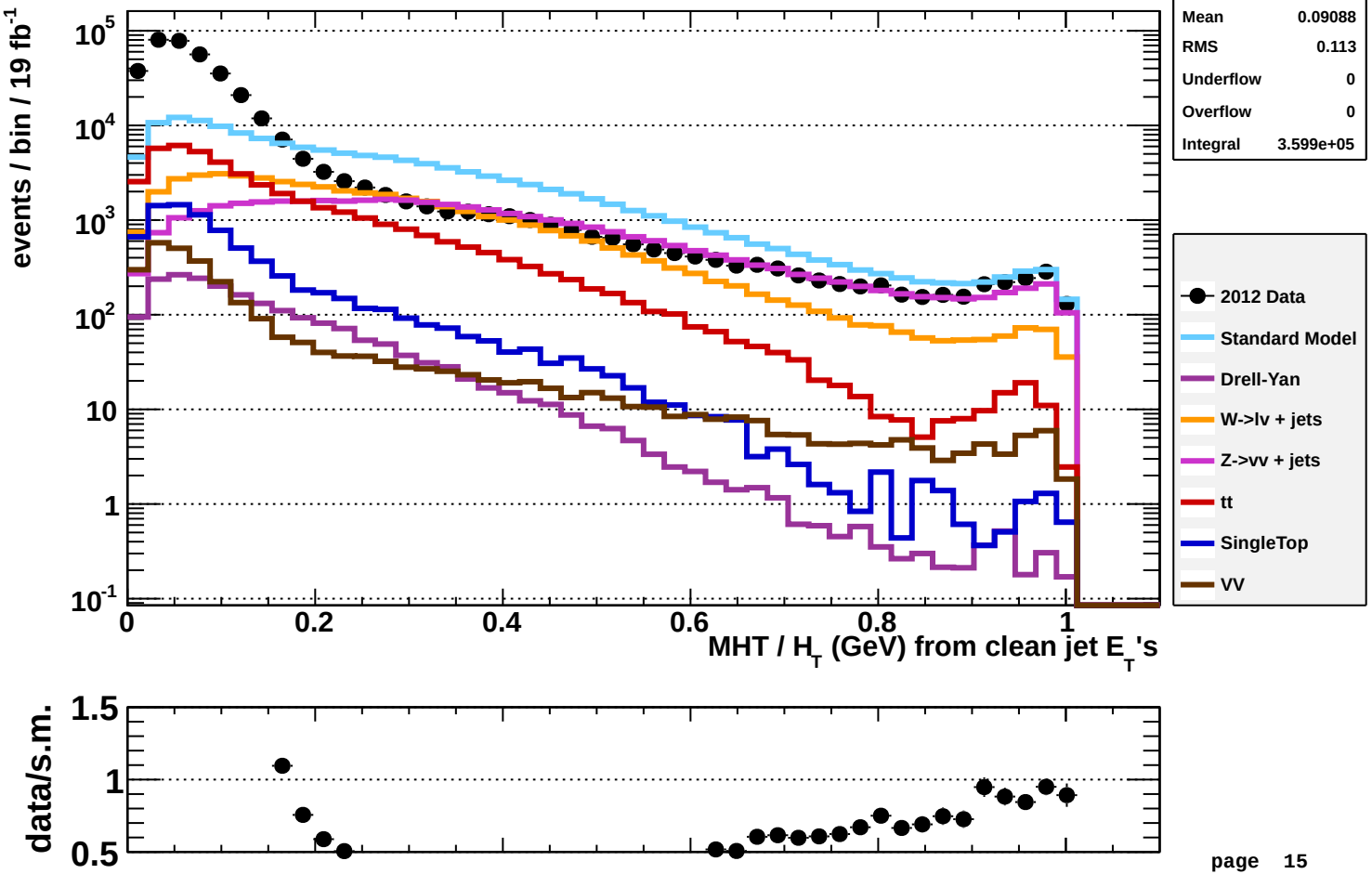
	2012 Data Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
m:	139758363 -	-	-	-	-	-	-	
n:	139631006 -	-	-	-	-	-	-	
o:	9399833 -	-	-	-	-	-	-	
p:	9226526 4.965(2)e+7	3.777(3)e+6	3.313(2)e+7	6.331(1)e+6	3.936(-)e+6	1.5400(8)e+6	9.404(3)e+5	0.18582(9)
q:	9071768 1.1435(6)e+7	7.20(1)e+5	6.269(5)e+6	1.6026(6)e+6	2.1400(7)e+6	4.993(4)e+5	2.045(1)e+5	0.7933(5)
r:	7630042 2.542(-)e+6	1.215(2)e+5	9.909(8)e+5	2.373(1)e+5	9.405(5)e+5	1.893(3)e+5	6.268(8)e+4	3.001(2)
s:	7233757 1.2330(5)e+6	4.455(6)e+4	3.552(3)e+5	9.109(6)e+4	6.207(4)e+5	9.34(2)e+4	2.799(5)e+4	5.867(3)
t:	7220369 1.2238(5)e+6	4.415(6)e+4	3.533(3)e+5	9.104(6)e+4	6.146(4)e+5	9.28(2)e+4	2.792(5)e+4	5.900(3)
u:	7190235 1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
v:	7190235 1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
w:	6774586 1.1844(5)e+6	4.265(6)e+4	3.456(3)e+5	8.984(6)e+4	5.898(4)e+5	8.92(2)e+4	2.735(5)e+4	5.720(3)
x:	6742525 1.0119(5)e+6	2.676(5)e+4	2.539(2)e+5	8.981(6)e+4	5.315(3)e+5	8.37(2)e+4	2.618(5)e+4	6.663(4)
y:	6713053 1.0049(5)e+6	2.613(5)e+4	2.496(2)e+5	8.977(6)e+4	5.298(3)e+5	8.35(2)e+4	2.605(5)e+4	6.681(4)
z:	6688261 8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982 8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567 8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167 2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)
\| D: | 359924 1.370(1)e+5 | 2.01(2)e+3 | 4.482(9)e+4 | 3.679(4)e+4 | 4.265(9)e+4 | 7.96(6)e+3 | 2.80(2)e+3 | 2.627(5) |

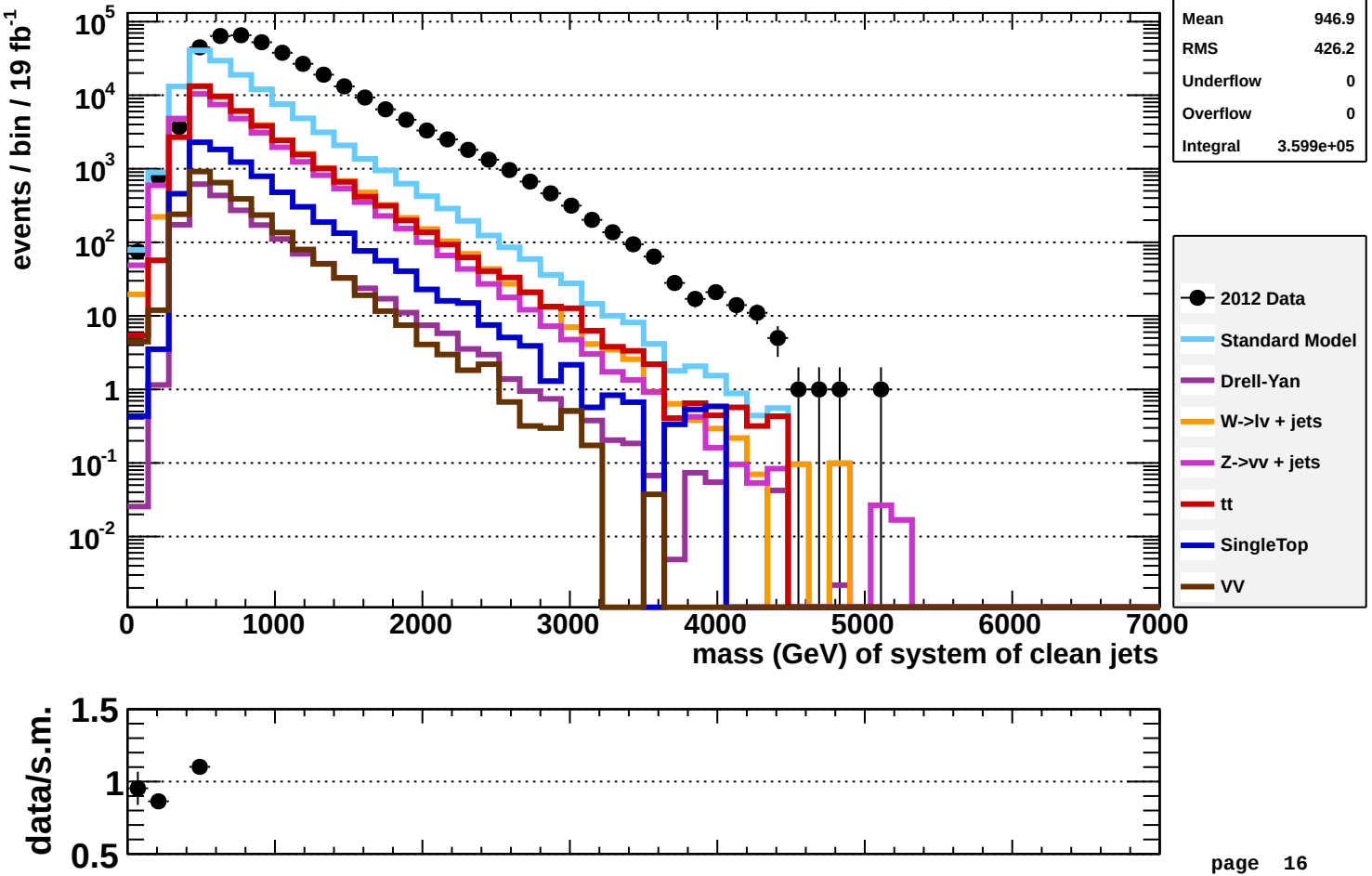

xcak5JetHtPat
Entries 359924
Mean 603.6
RMS 169
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetHtPlusMhtPat
Entries 359924
Mean 654.5
RMS 174.5
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + /H_T (GeV) from xcak5JetPat E_T's
data/s.m.

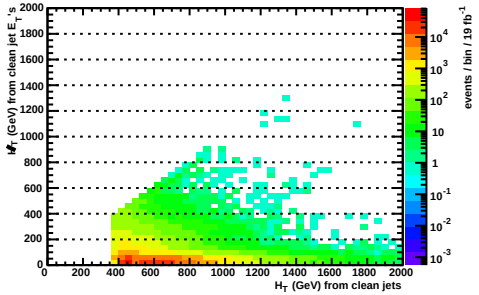

xcak5JetHtPlusMhtRoughPat
Entries 359924
Mean 673.4
RMS 157.2
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + /H_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetMhtPat
Entries 359924
Mean 50.25
RMS 57.17
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
$\not{H}_T$ (GeV) from xcak5JetPat
data/s.m.

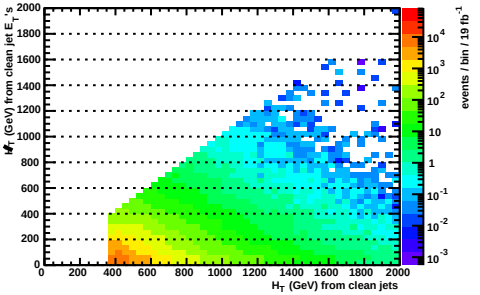

xcak5JetmHtOverHtPat
Entries 359924
Mean 0.09088
RMS 0.113
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT / HT (GeV) from clean jet ET's
data/s.m.


xcak5JetmPat
Entries 359924
Mean 946.9
RMS 426.2
Underflow 0
Overflow 0
Integral 3.599e+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.

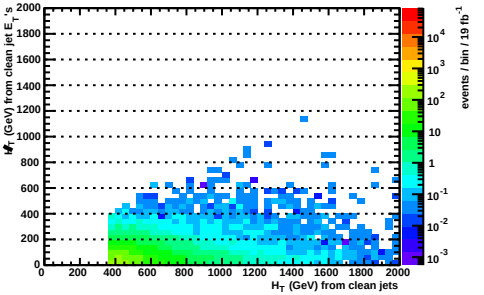
2012 Data



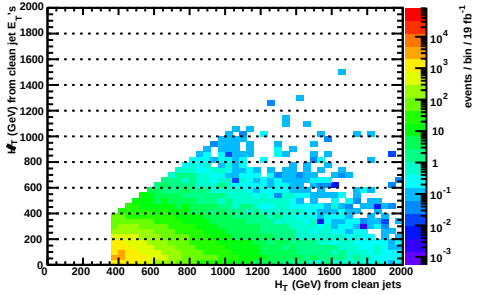
Standard Model



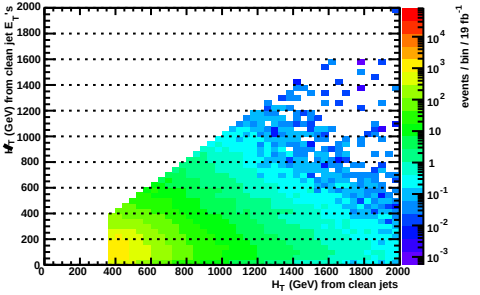
Drell-Yan



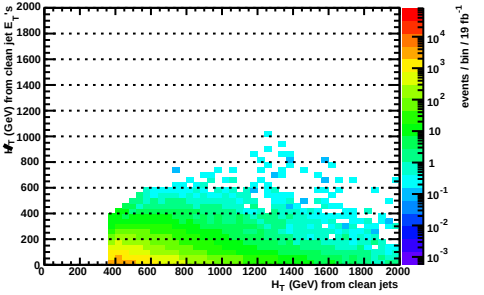
W->lv + jets



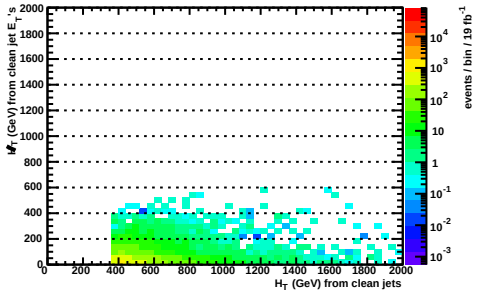
Z->vv + jets



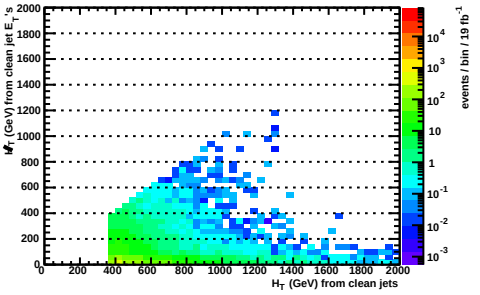
tt

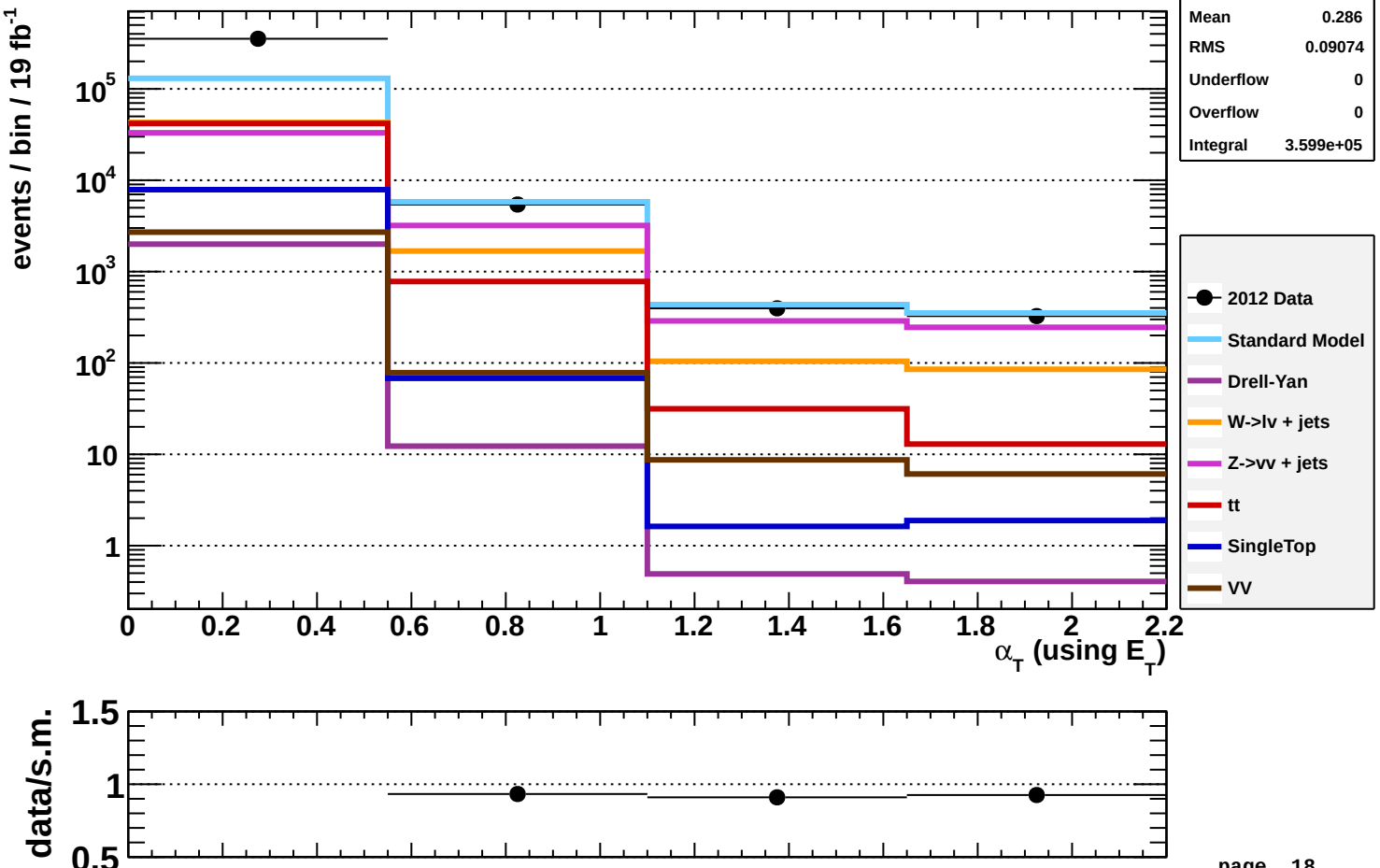


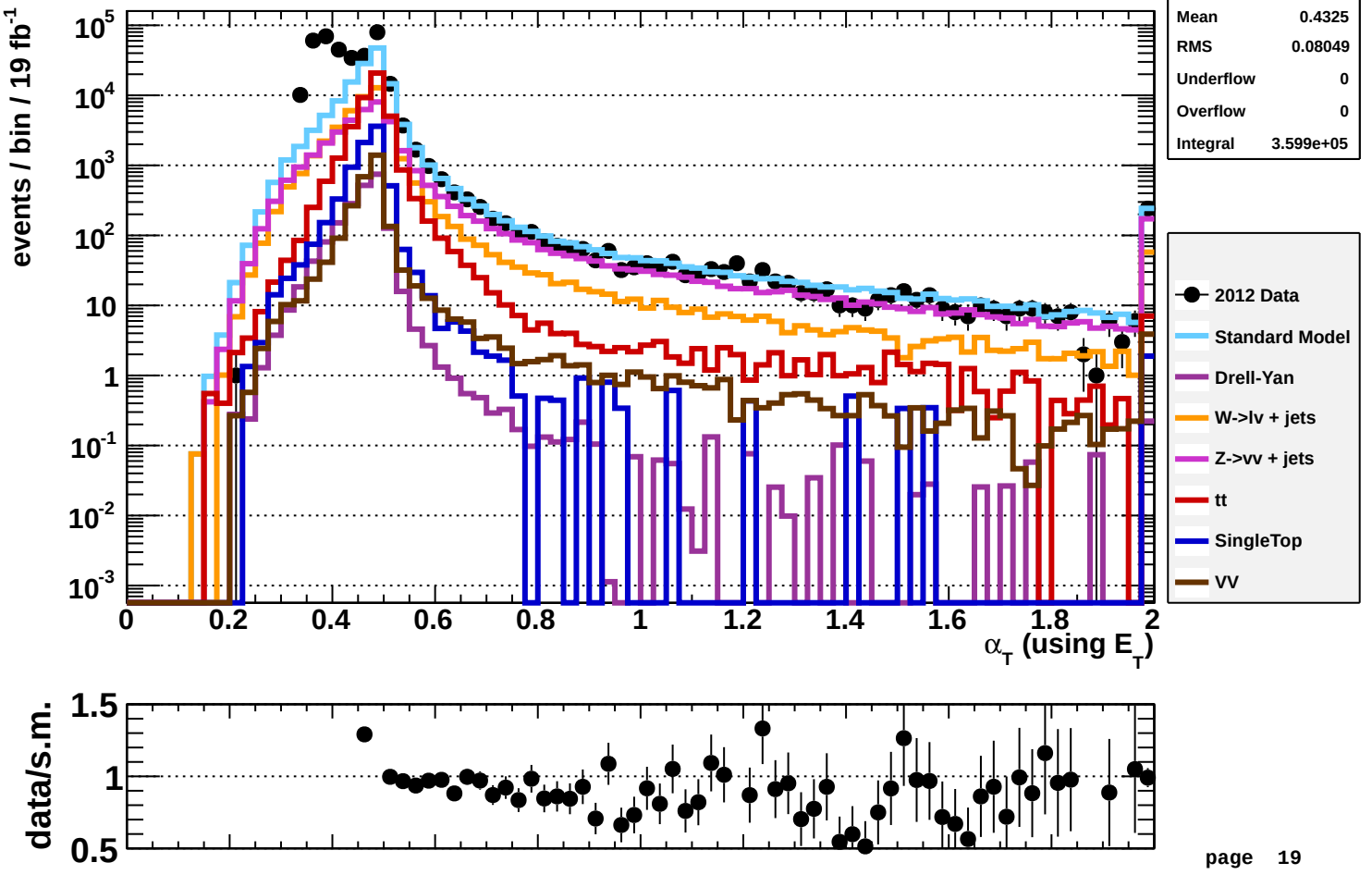
SingleTop

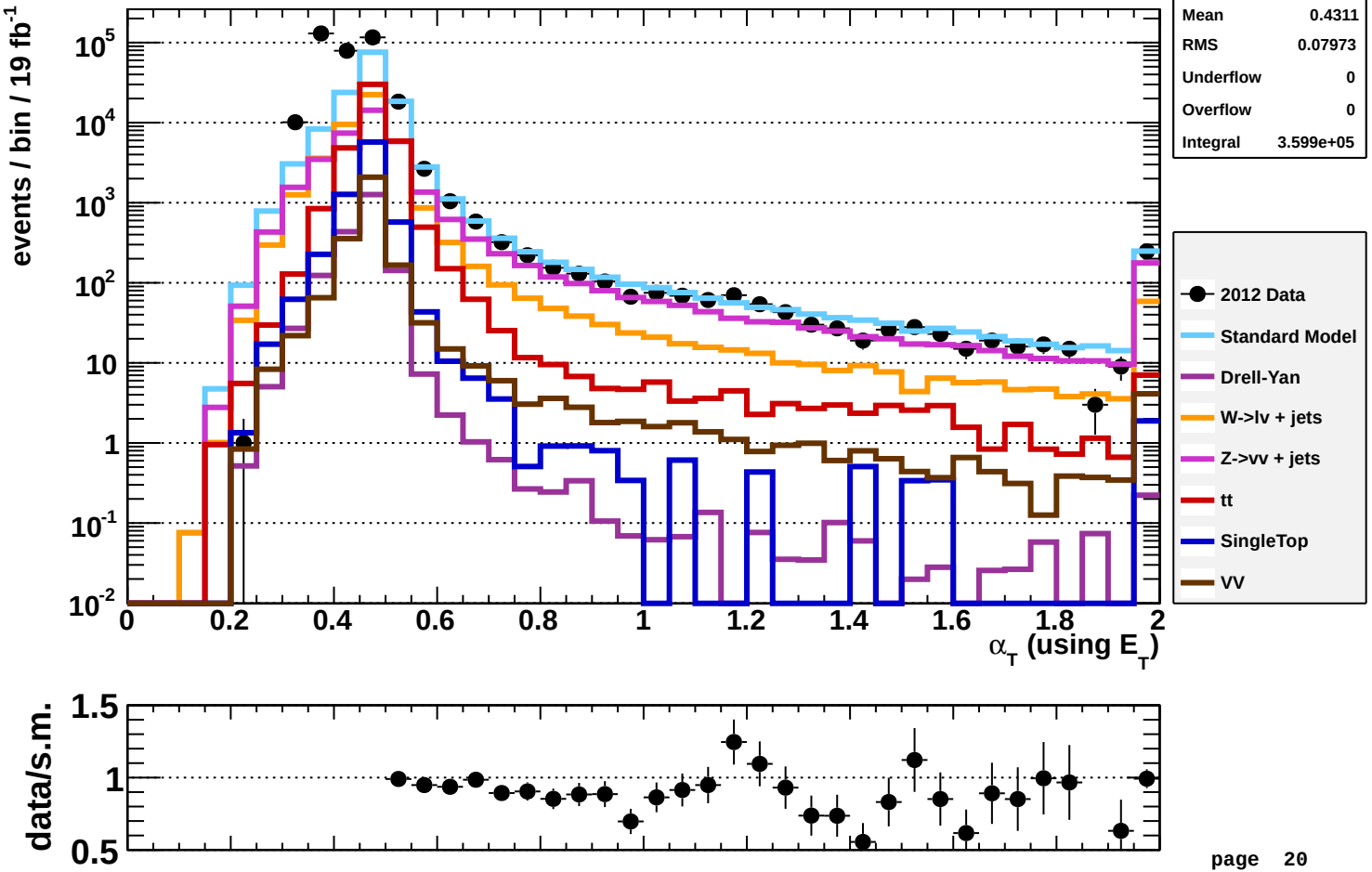


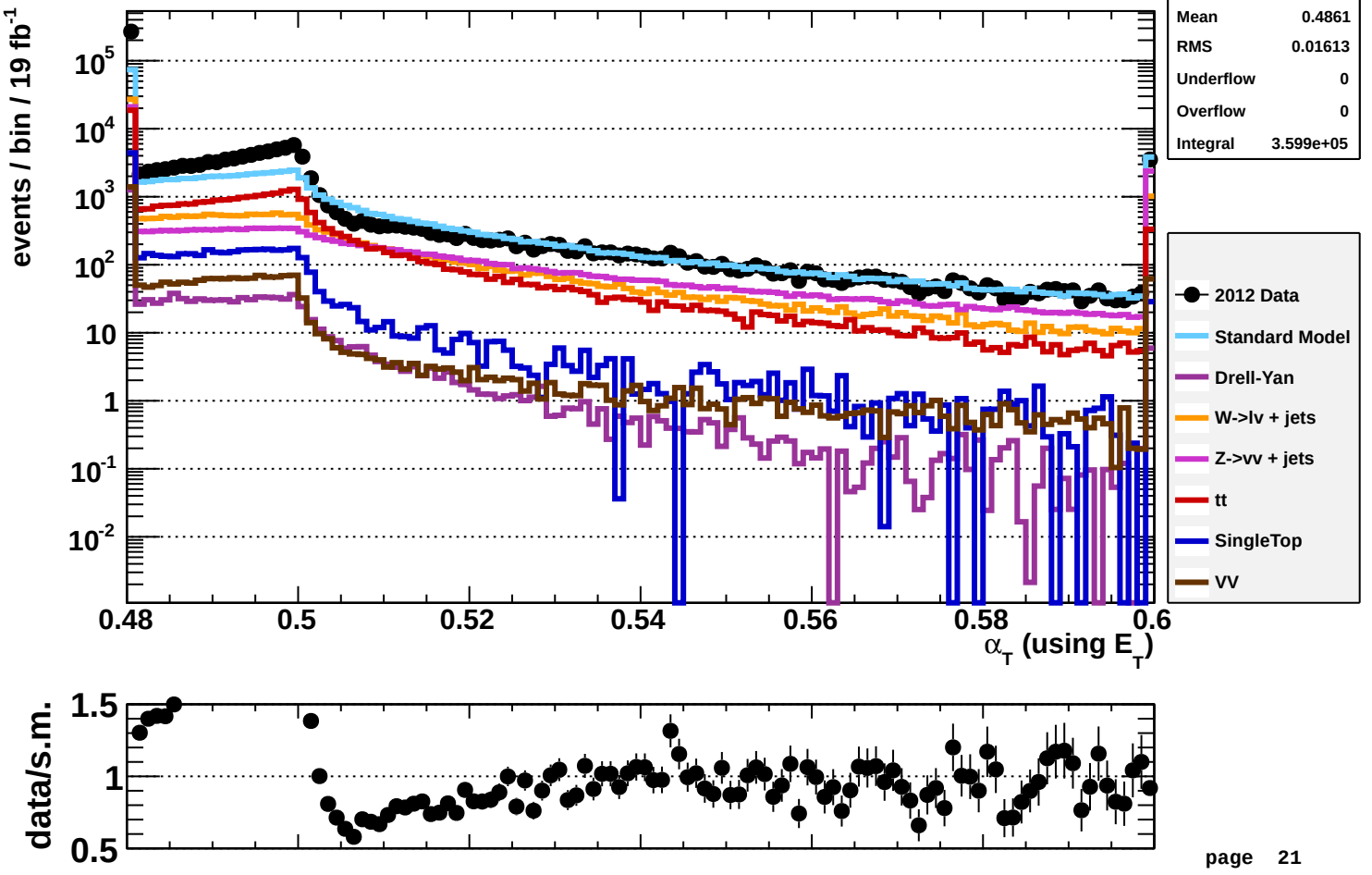
VV

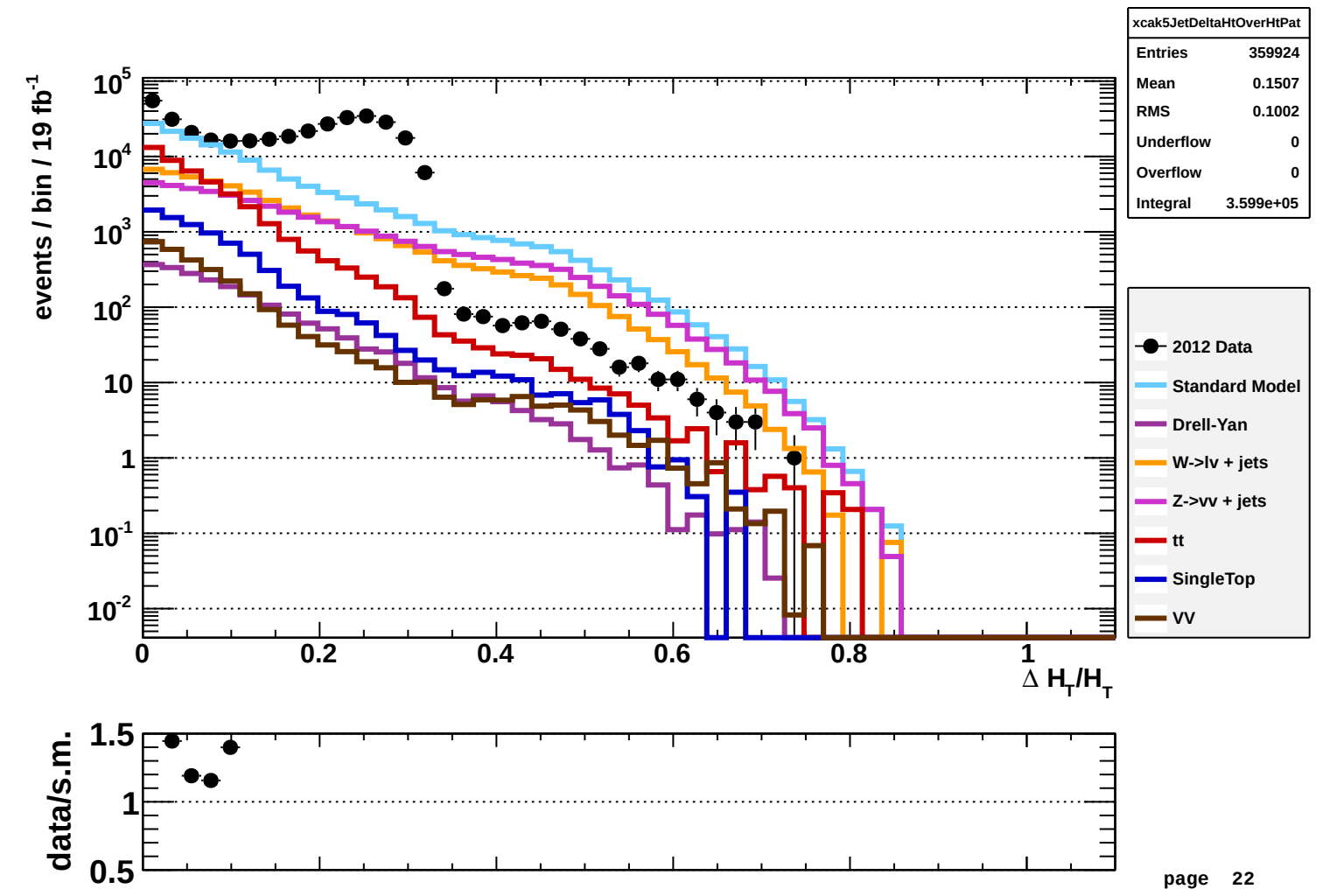


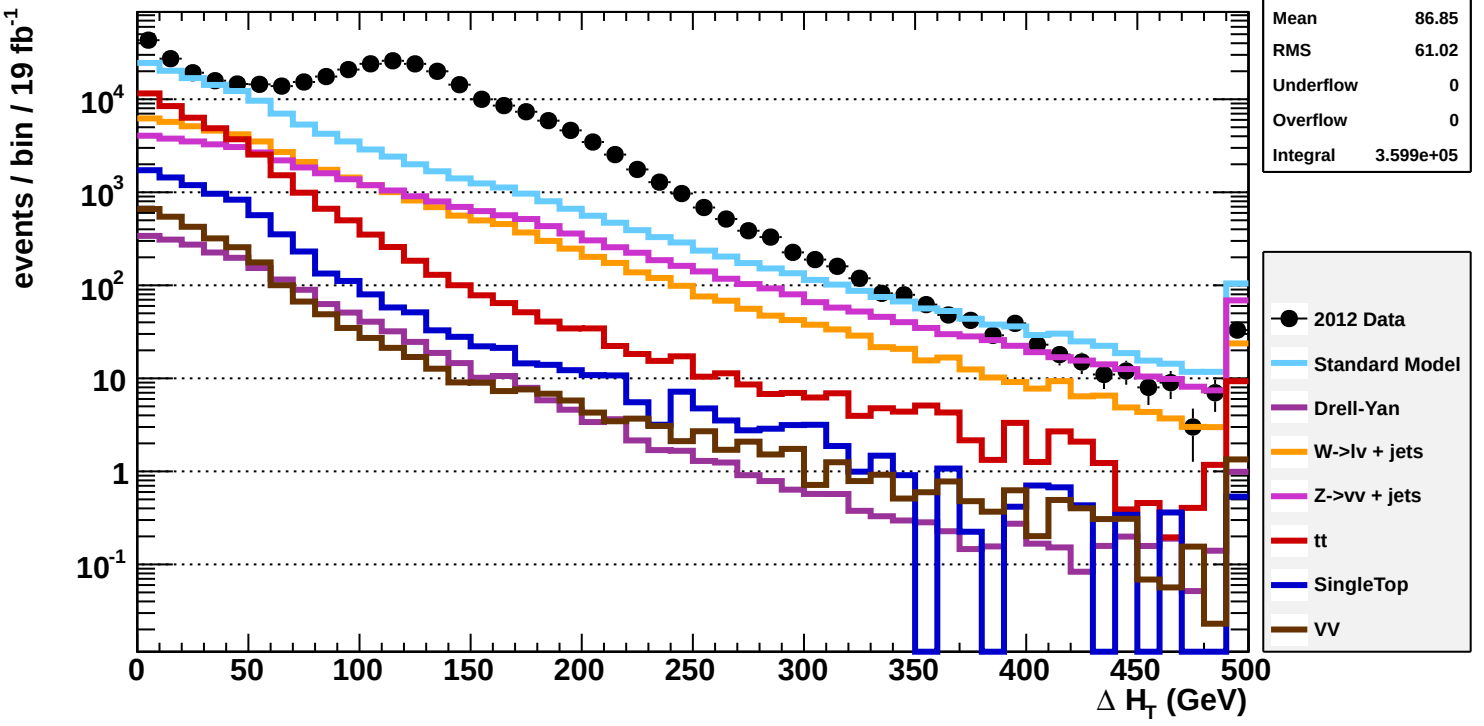

xcak5JetAlphaTFewBinsPat
Entries 359924
Mean 0.286
RMS 0.09074
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.

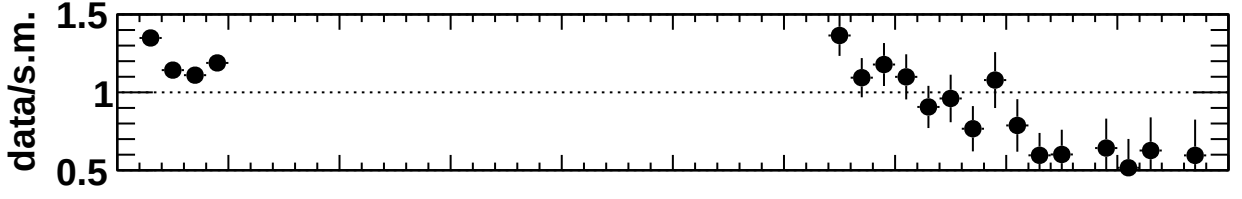

xcak5JetAlphaTPat
Entries 359924
Mean 0.4325
RMS 0.08049
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetAlphaTRoughPat
Entries 359924
Mean 0.4311
RMS 0.07973
Underflow 0
Overflow 0
Integral 3.599e+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.

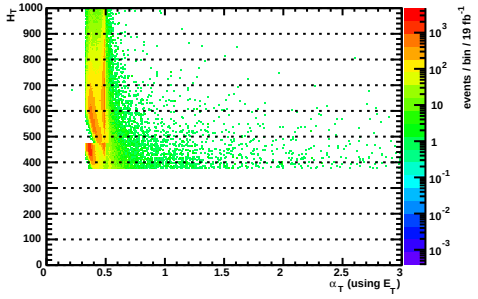

xcak5JetAlphaTZoomPat
Entries 359924
Mean 0.4861
RMS 0.01613
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetDeltaHtOverHtPat
Entries 359924
Mean 0.1507
RMS 0.1002
Underflow 0
Overflow 0
Integral 3.599e+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.

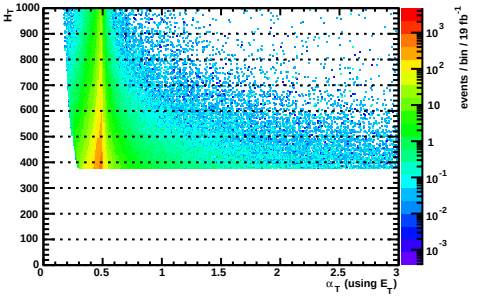

xcak5JetDeltaHtPat
Entries 359924
Mean 86.85
RMS 61.02
Underflow 0
Overflow 0
Integral 3.599e+05
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT (GeV)


data/s.m.

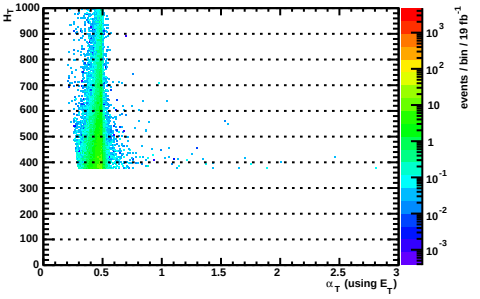
2012 Data



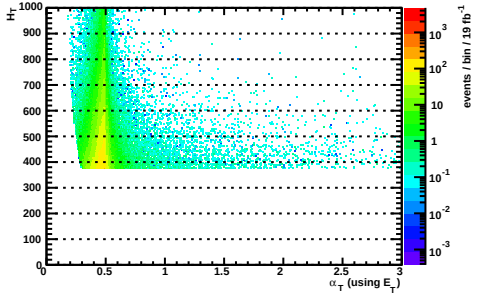
Standard Model



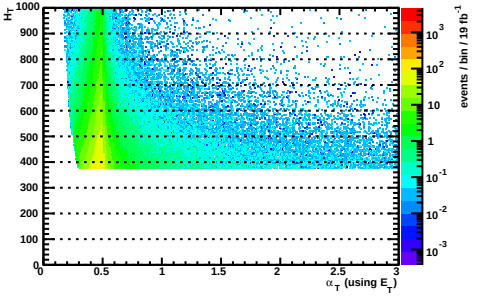
Drell-Yan



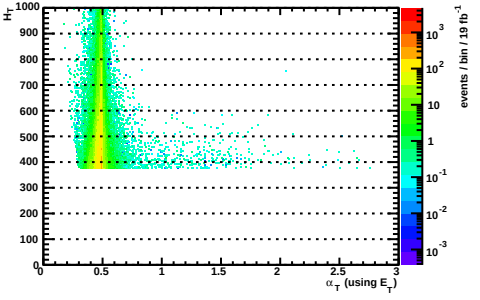
W->lv + jets



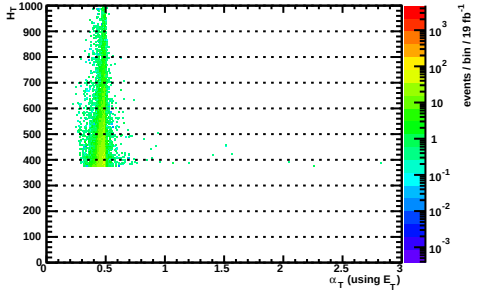
Z->vv + jets



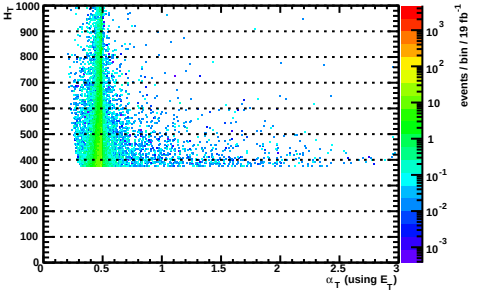
tt



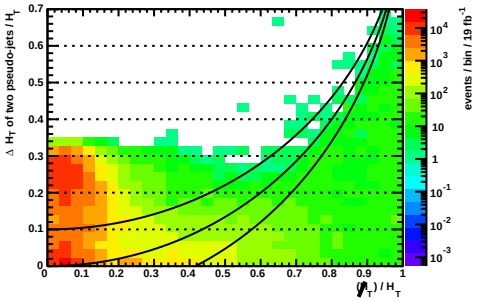
SingleTop



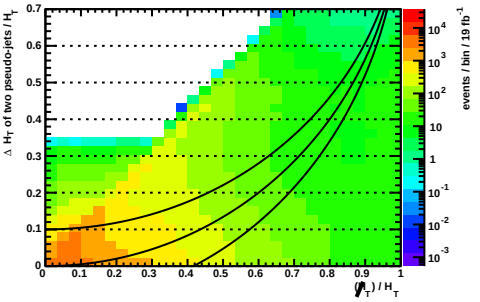
VV



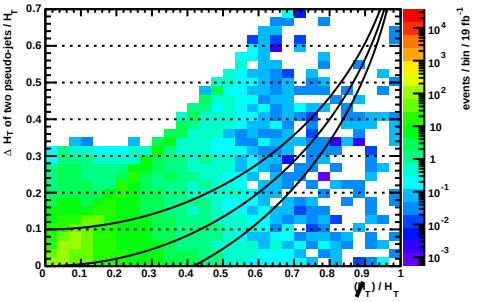
2012 Data



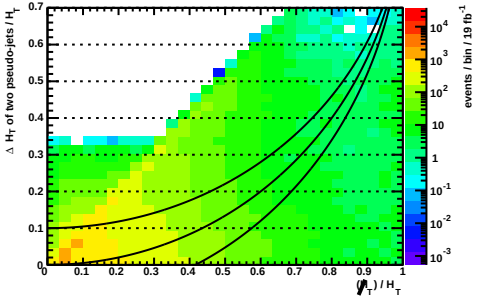
Standard Model



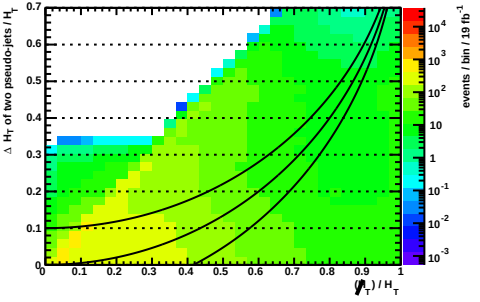
Drell-Yan



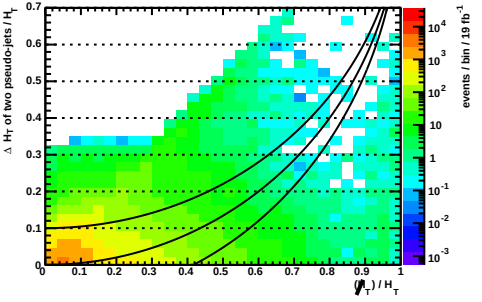
W->lv + jets



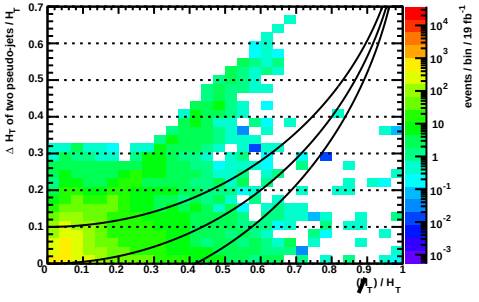
Z->vv + jets



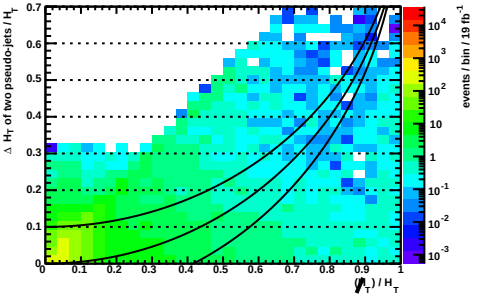
tt



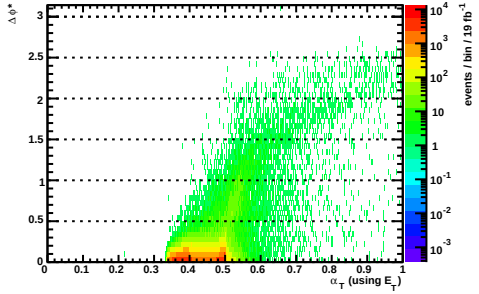
SingleTop



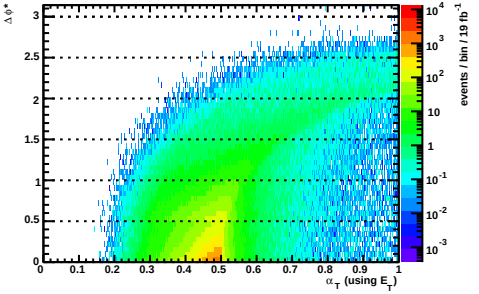
VV



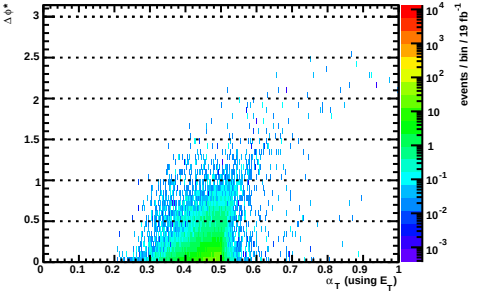
2012 Data



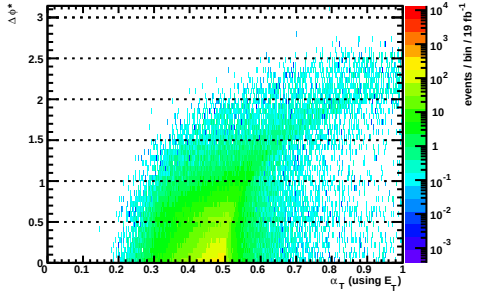
Standard Model



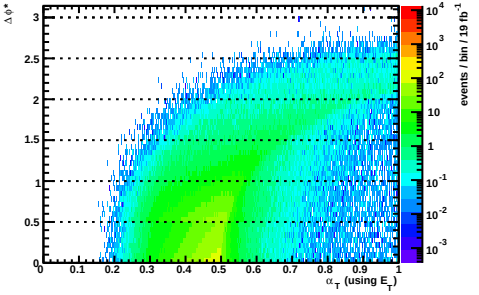
Drell-Yan



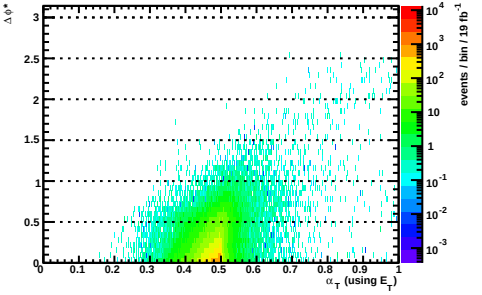
W->lv + jets



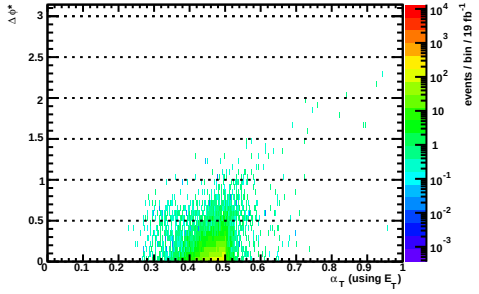
Z->vv + jets



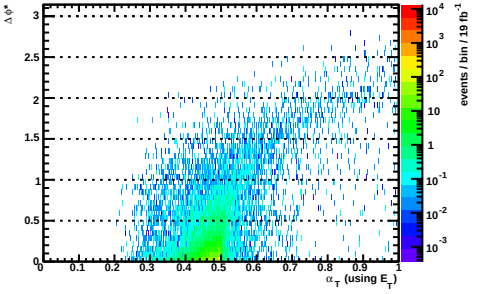
tt

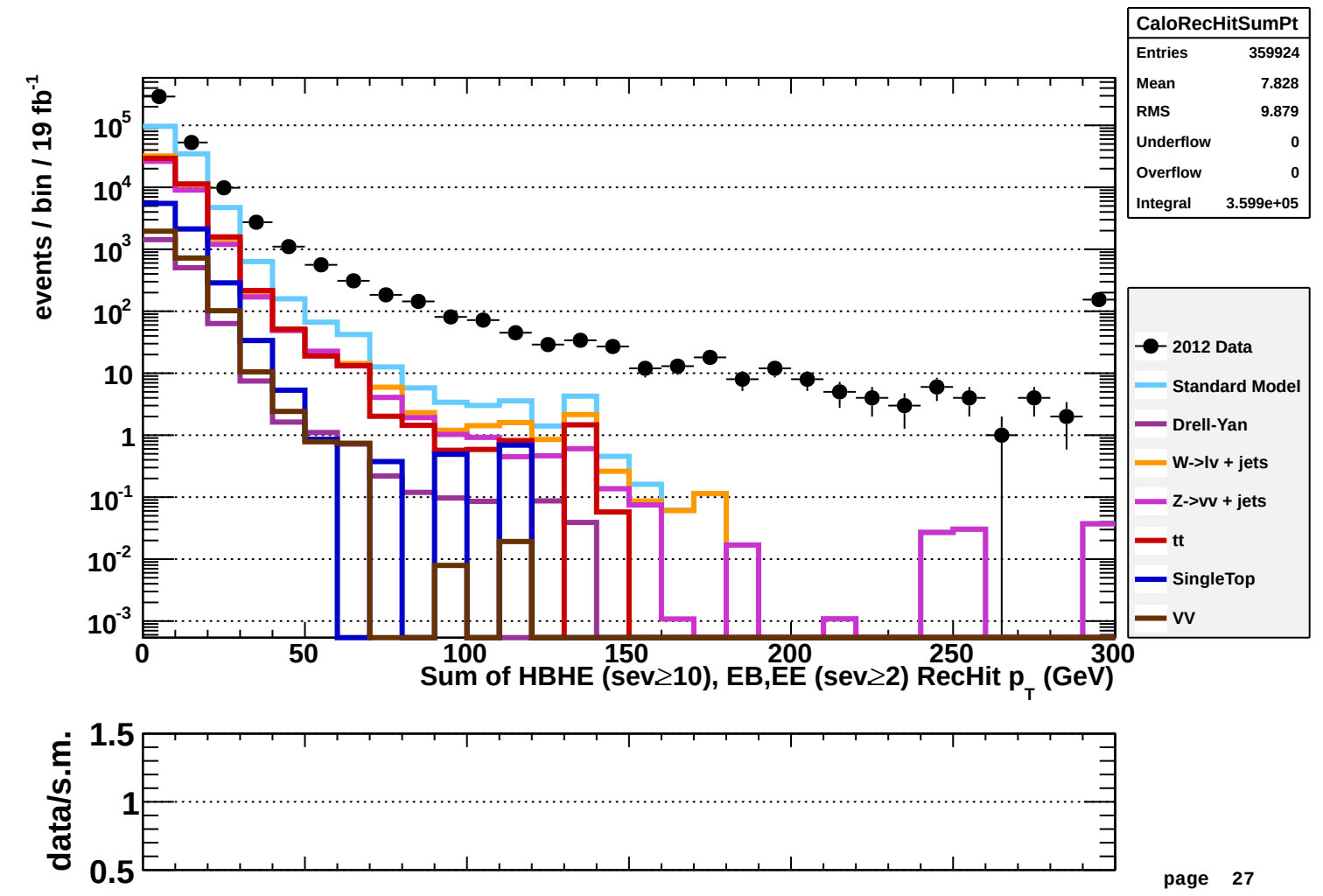


SingleTop



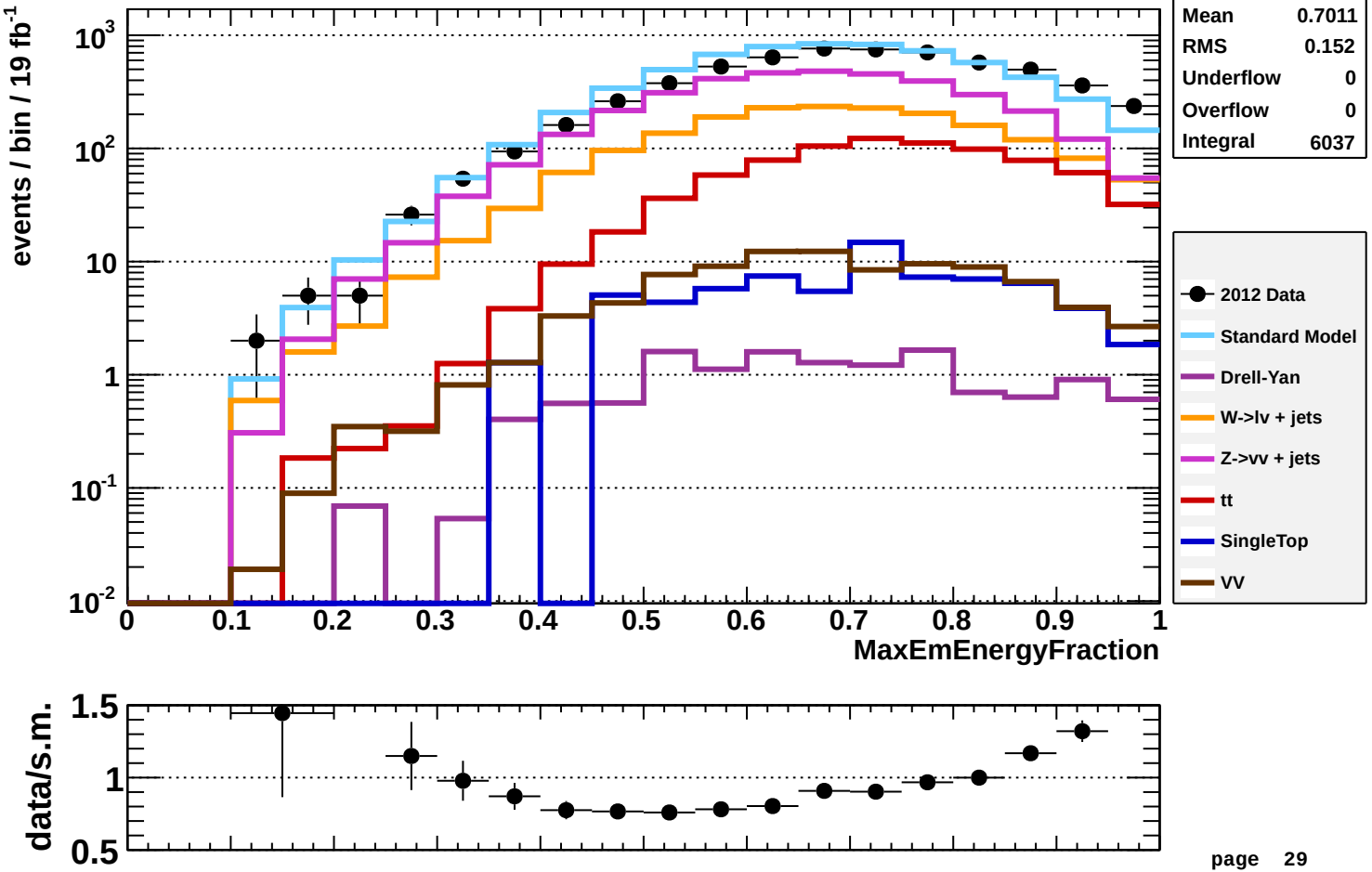
VV




CaloRecHitSumPt
Entries 359924
Mean 7.828
RMS 9.879
Underflow 0
Overflow 0
Integral 3.599e+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.

p:	jetEtaSelector	xcak5JetPat; |eta[index[0]]|<=2.5
q:	jetPtSelector	xcak5JetPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPat
u:	multiplicity	0 <= xcak5JetIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetIndicesPat
w:	multiplicity	0 <= xcak5JetIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPat <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	CaloRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetAlphaTEtPat
G:	value	0.10<=xcak5JetMaxEmEnergyFractionPat

	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
p:	9226526	4.965(2)e+7	3.777(3)e+6	3.313(2)e+7	6.331(1)e+6	3.936(-)e+6	1.5400(8)e+6	9.404(3)e+5	0.18582(9)
q:	9071768	1.1435(6)e+7	7.20(1)e+5	6.269(5)e+6	1.6026(6)e+6	2.1400(7)e+6	4.993(4)e+5	2.045(1)e+5	0.7933(5)
r:	7630042	2.542(-)e+6	1.215(2)e+5	9.909(8)e+5	2.373(1)e+5	9.405(5)e+5	1.893(3)e+5	6.268(8)e+4	3.001(2)
s:	7233757	1.2330(5)e+6	4.455(6)e+4	3.552(3)e+5	9.109(6)e+4	6.207(4)e+5	9.34(2)e+4	2.799(5)e+4	5.867(3)
t:	7220369	1.2238(5)e+6	4.415(6)e+4	3.533(3)e+5	9.104(6)e+4	6.146(4)e+5	9.28(2)e+4	2.792(5)e+4	5.900(3)
u:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
v:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
w:	6774586	1.1844(5)e+6	4.265(6)e+4	3.456(3)e+5	8.984(6)e+4	5.898(4)e+5	8.92(2)e+4	2.735(5)e+4	5.720(3)
x:	6742525	1.0119(5)e+6	2.676(5)e+4	2.539(2)e+5	8.981(6)e+4	5.315(3)e+5	8.37(2)e+4	2.618(5)e+4	6.663(4)
y:	6713053	1.0049(5)e+6	2.613(5)e+4	2.496(2)e+5	8.977(6)e+4	5.298(3)e+5	8.35(2)e+4	2.605(5)e+4	6.681(4)
z:	6688261	8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982	8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567	8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167	2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)
D:	359924	1.370(1)e+5	2.01(2)e+3	4.482(9)e+4	3.679(4)e+4	4.265(9)e+4	7.96(6)e+3	2.80(2)e+3	2.627(5)
E:	354346	1.361(1)e+5	2.00(2)e+3	4.452(9)e+4	3.653(4)e+4	4.235(9)e+4	7.92(6)e+3	2.78(2)e+3	2.604(5)
F:	6047	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.93(1)
G:	6037	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.92(1)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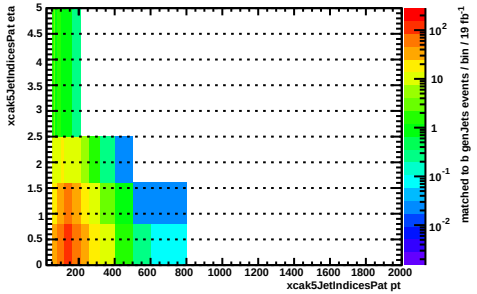
Mean 0.7011
RMS 0.152
Underflow 0
Overflow 0
Integral 6037
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MaxEmEnergyFraction
data/s.m.

Standard Model



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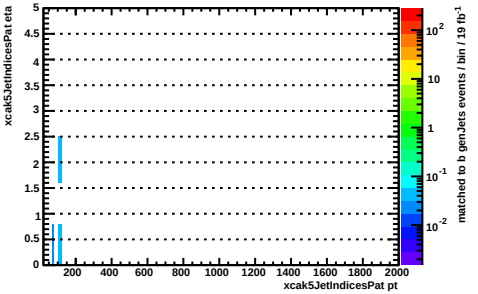
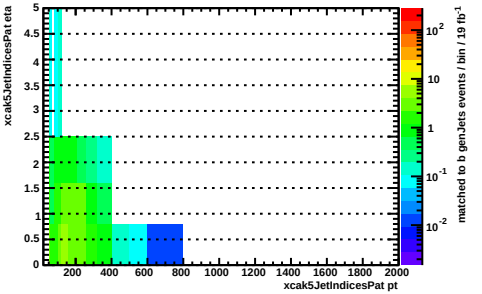
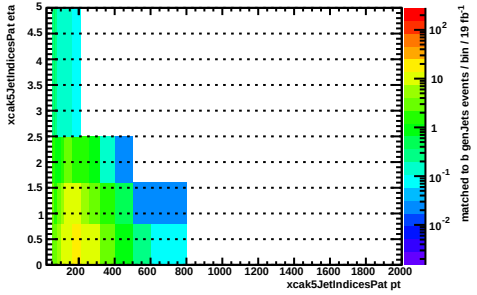


W->lv + jets



Z->vv + jets



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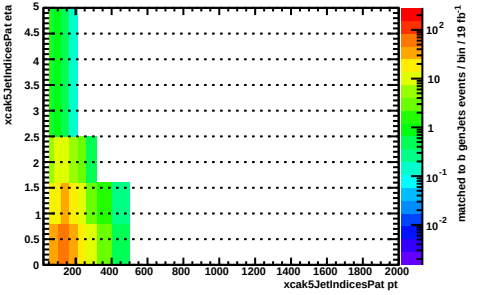

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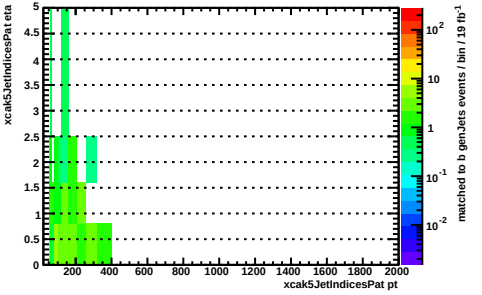

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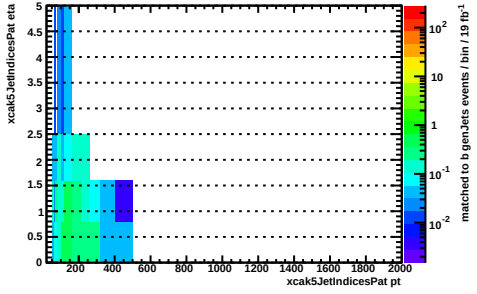

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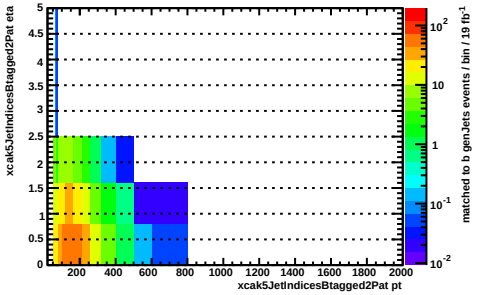

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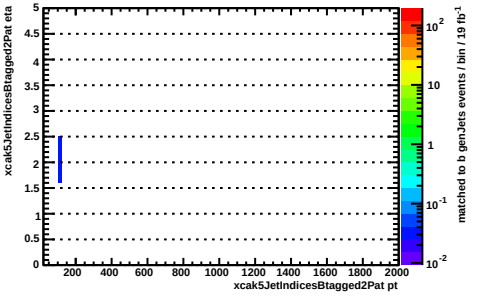
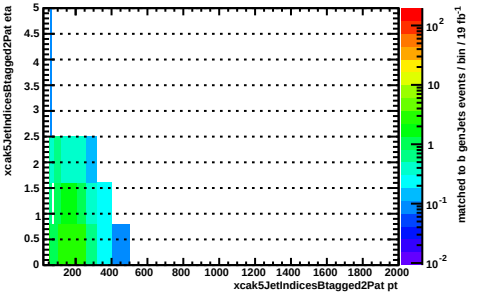


W->lv + jets



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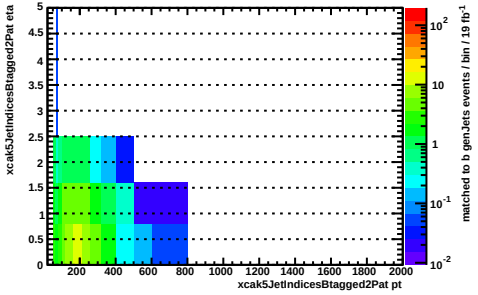

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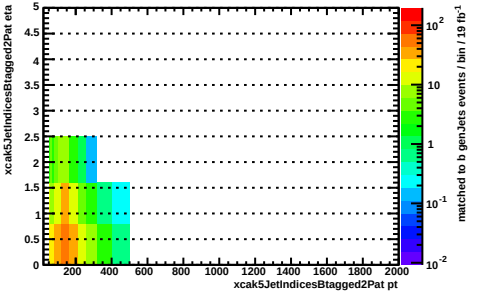

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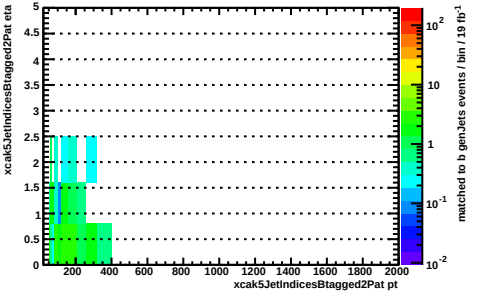

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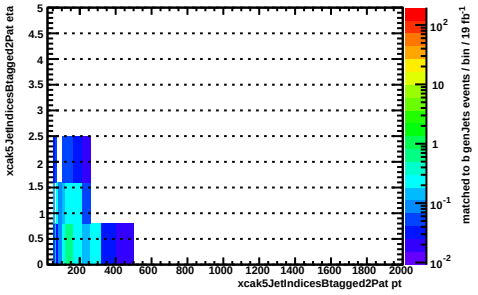
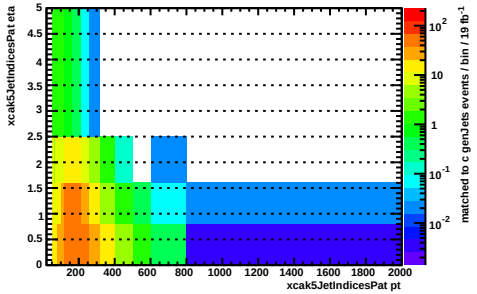
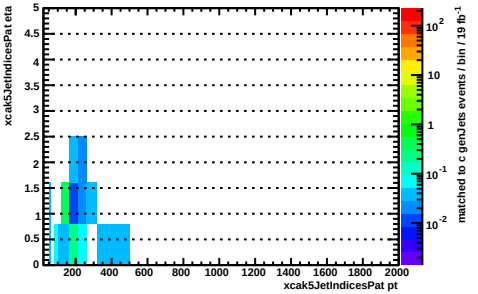


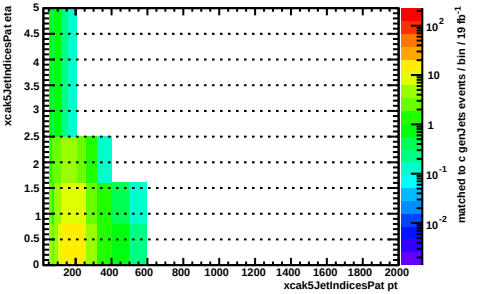
Standard Model



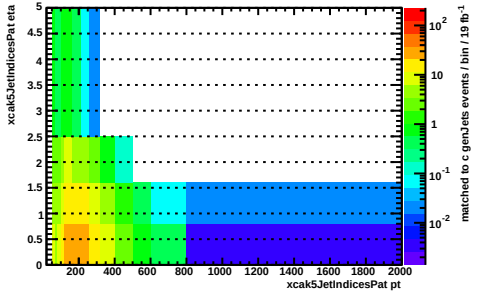
Drell-Yan



W->lv + jets



Z->vv + jets



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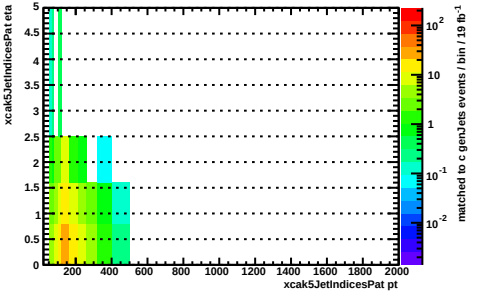

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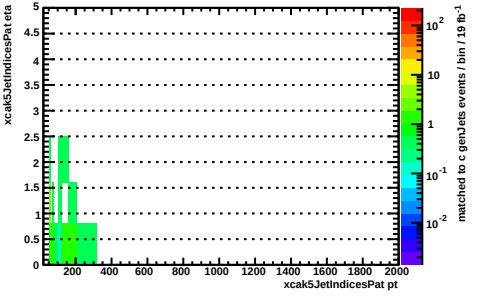

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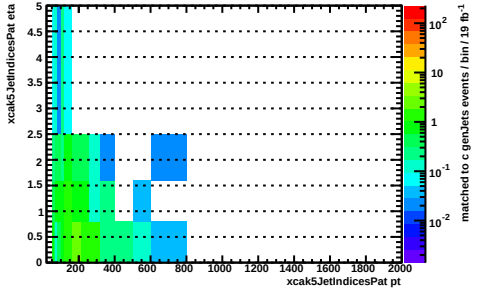

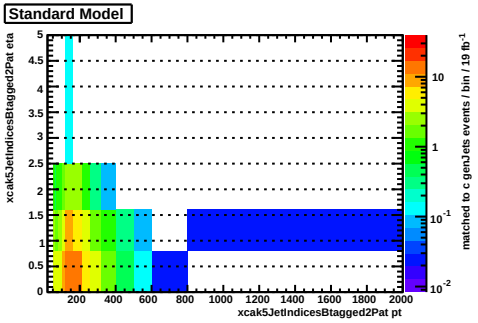
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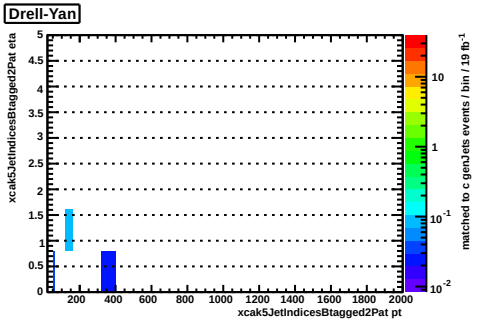
matched to c genJets events / bin / 19 fb-1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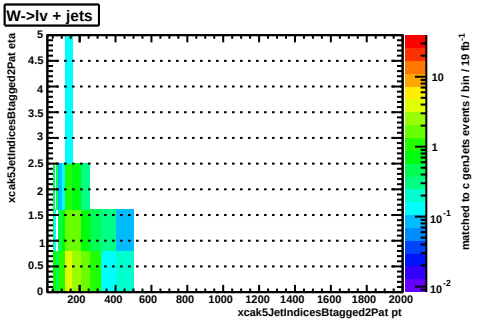
W->lv + jets
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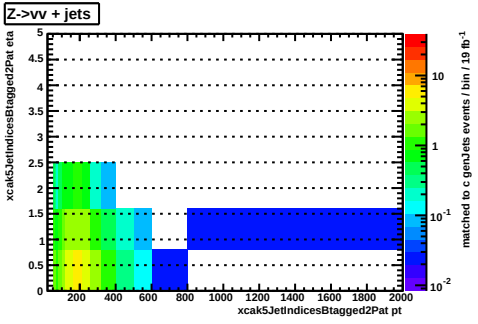
Z->vv + jets
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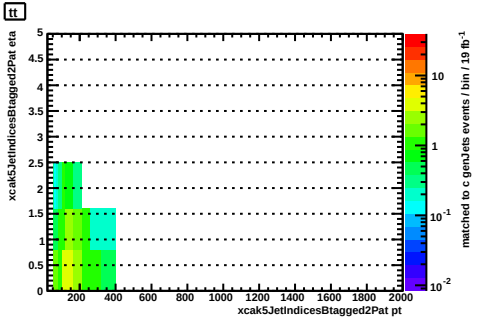
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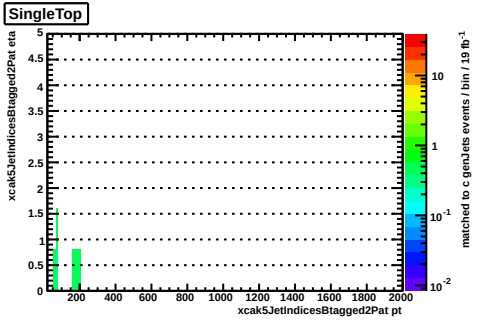
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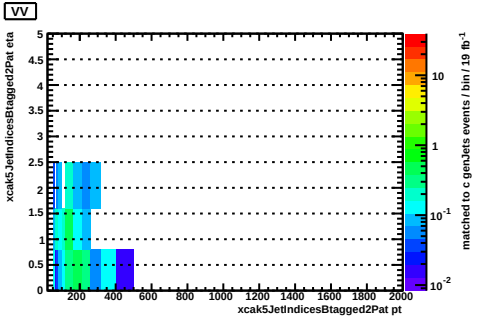
VV
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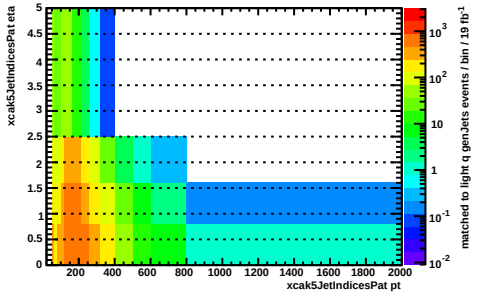
Standard Model



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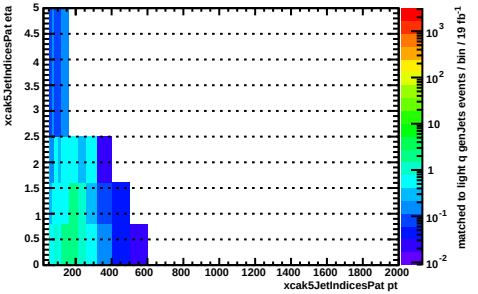
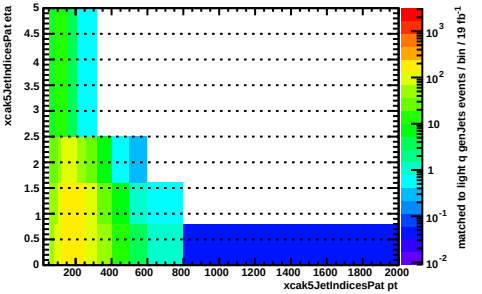
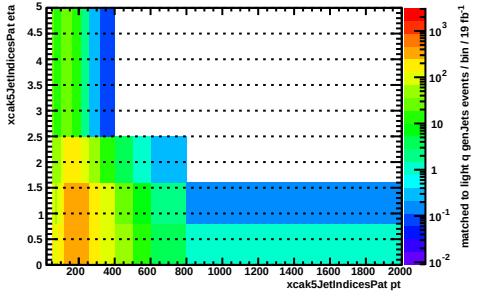


W->lv + jets



Z->vv + jets



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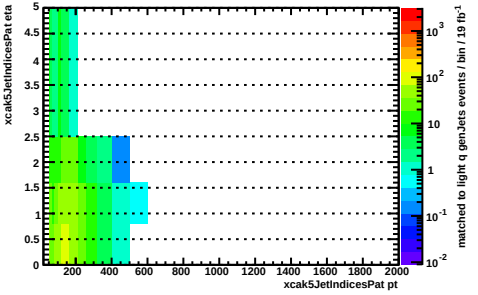

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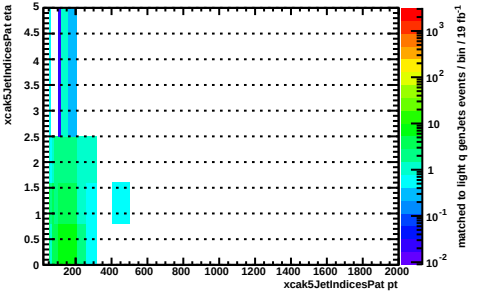

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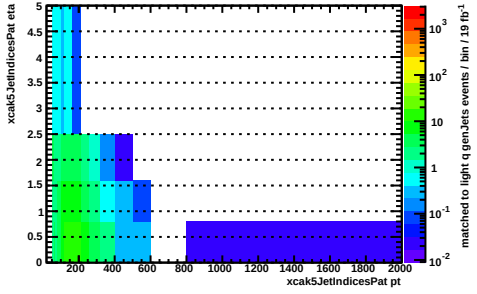
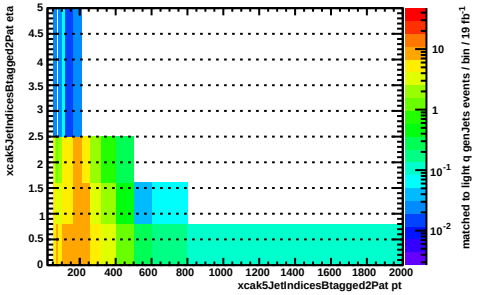
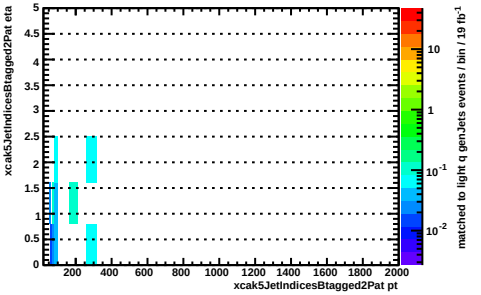


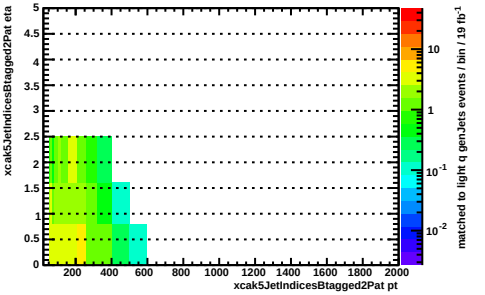
Standard Model



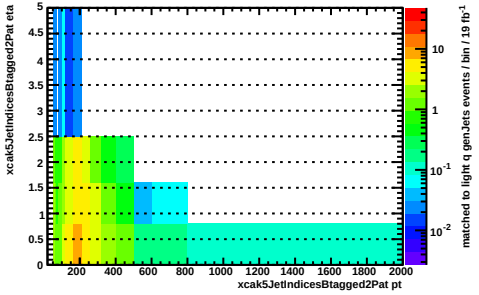
Drell-Yan



W->lv + jets



Z->vv + jets



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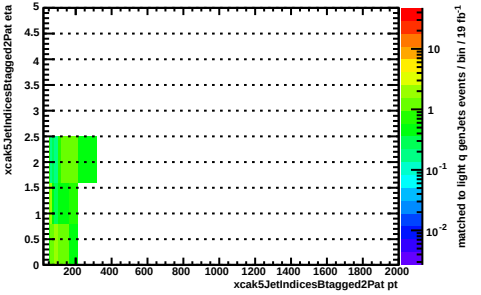

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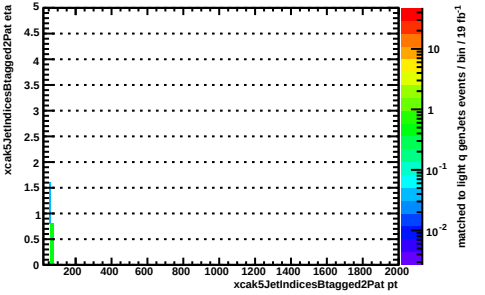

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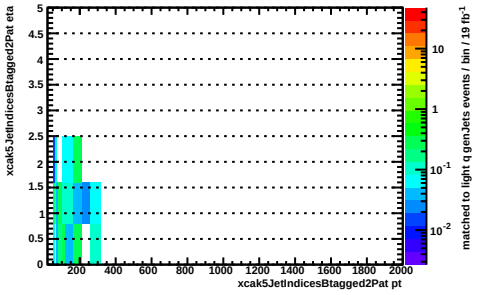
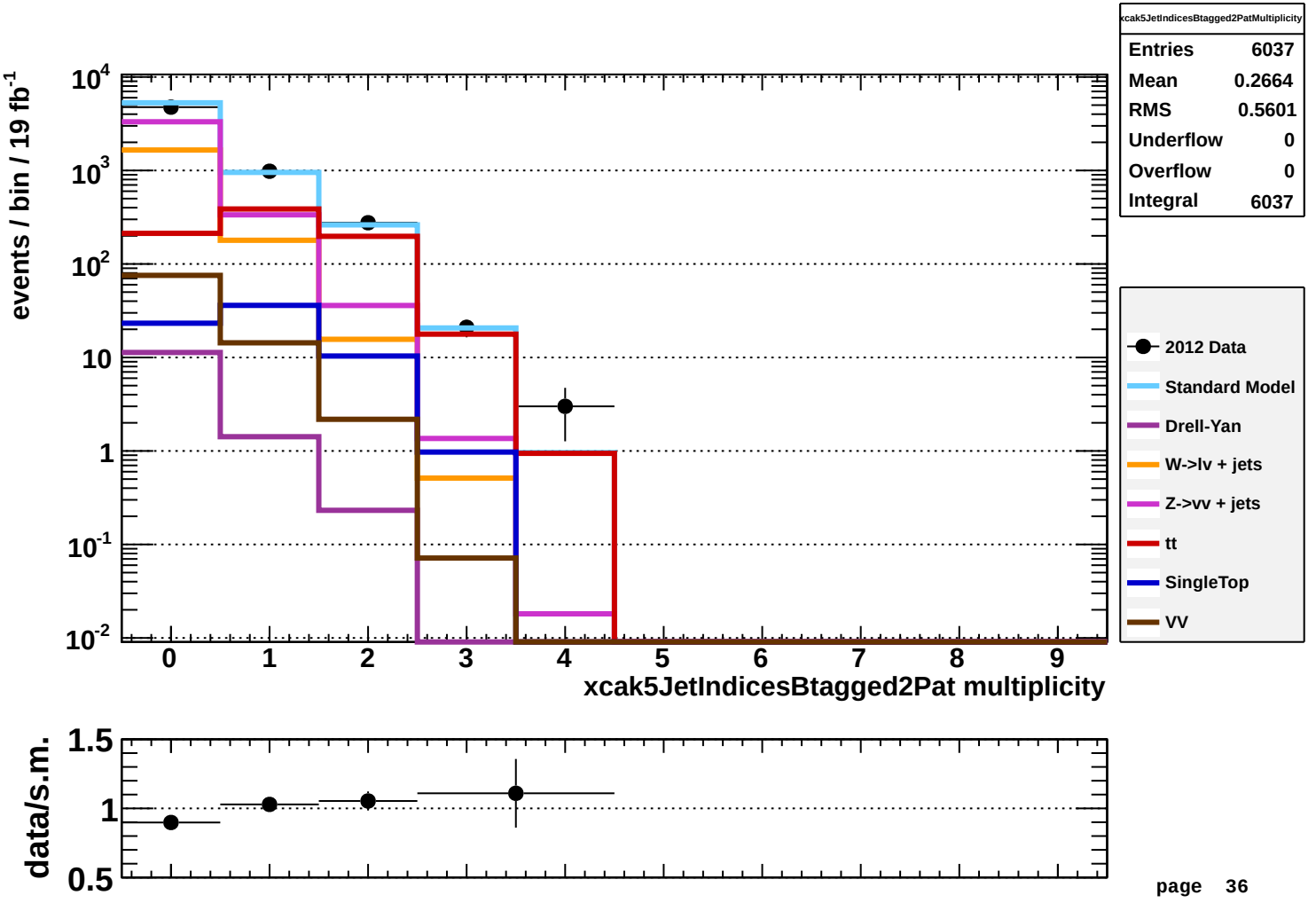
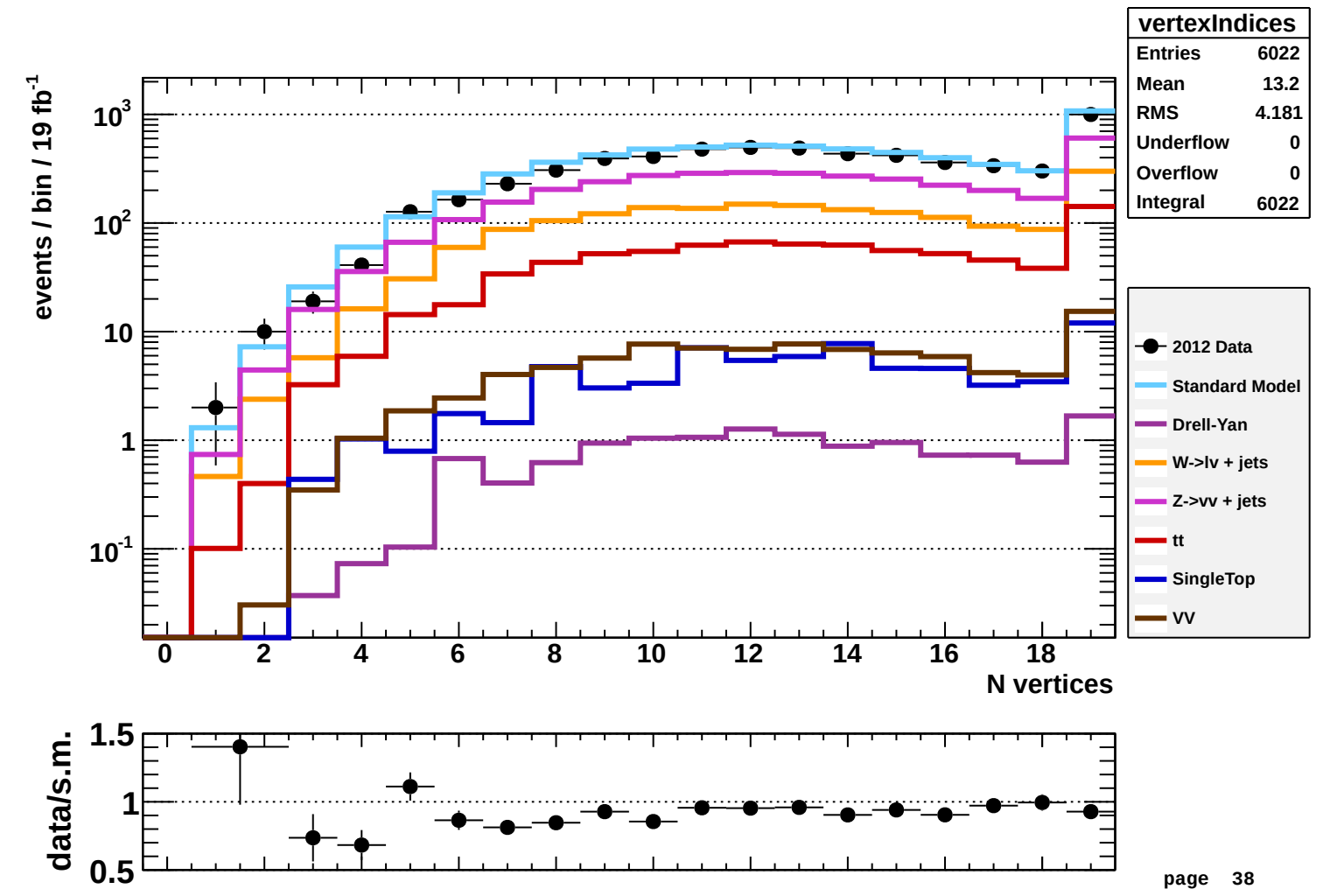
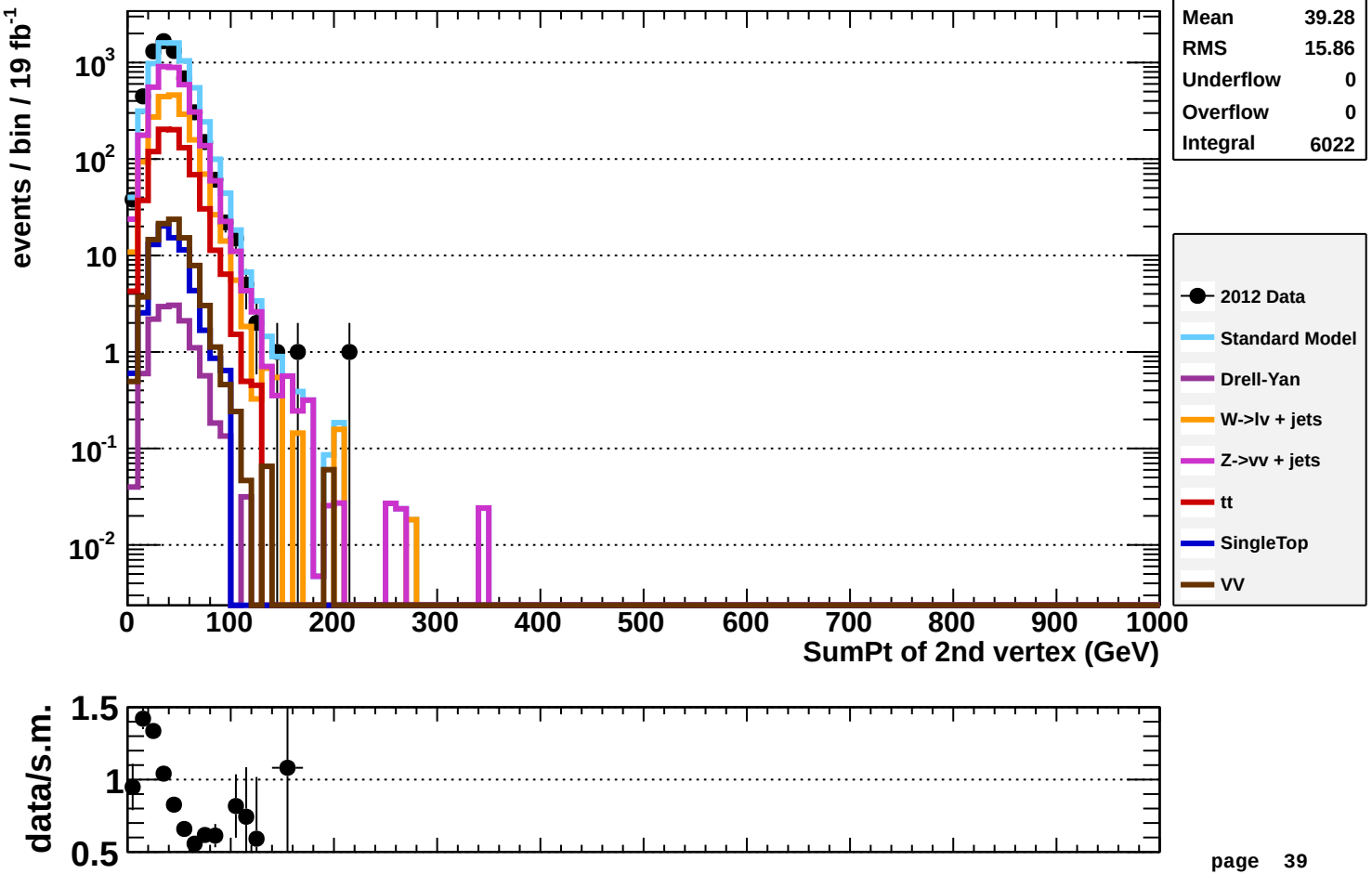


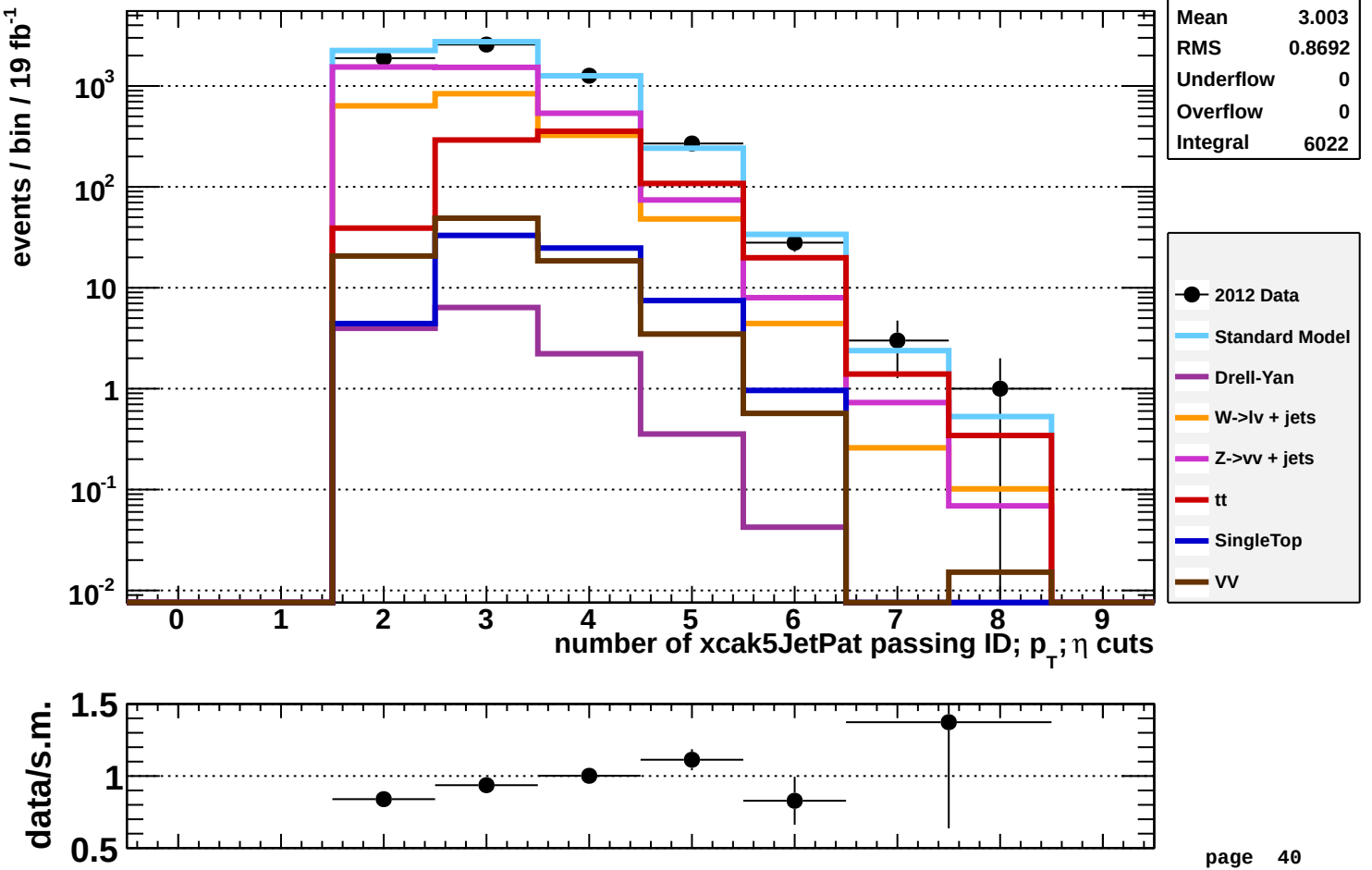

xcak5JetIndicesBtagged2PatMultiplicity
Entries 6037
Mean 0.2664
RMS 0.5601
Underflow 0
Overflow 0
Integral 6037
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
xcak5JetIndicesBtagged2Pat multiplicity
data/s.m.

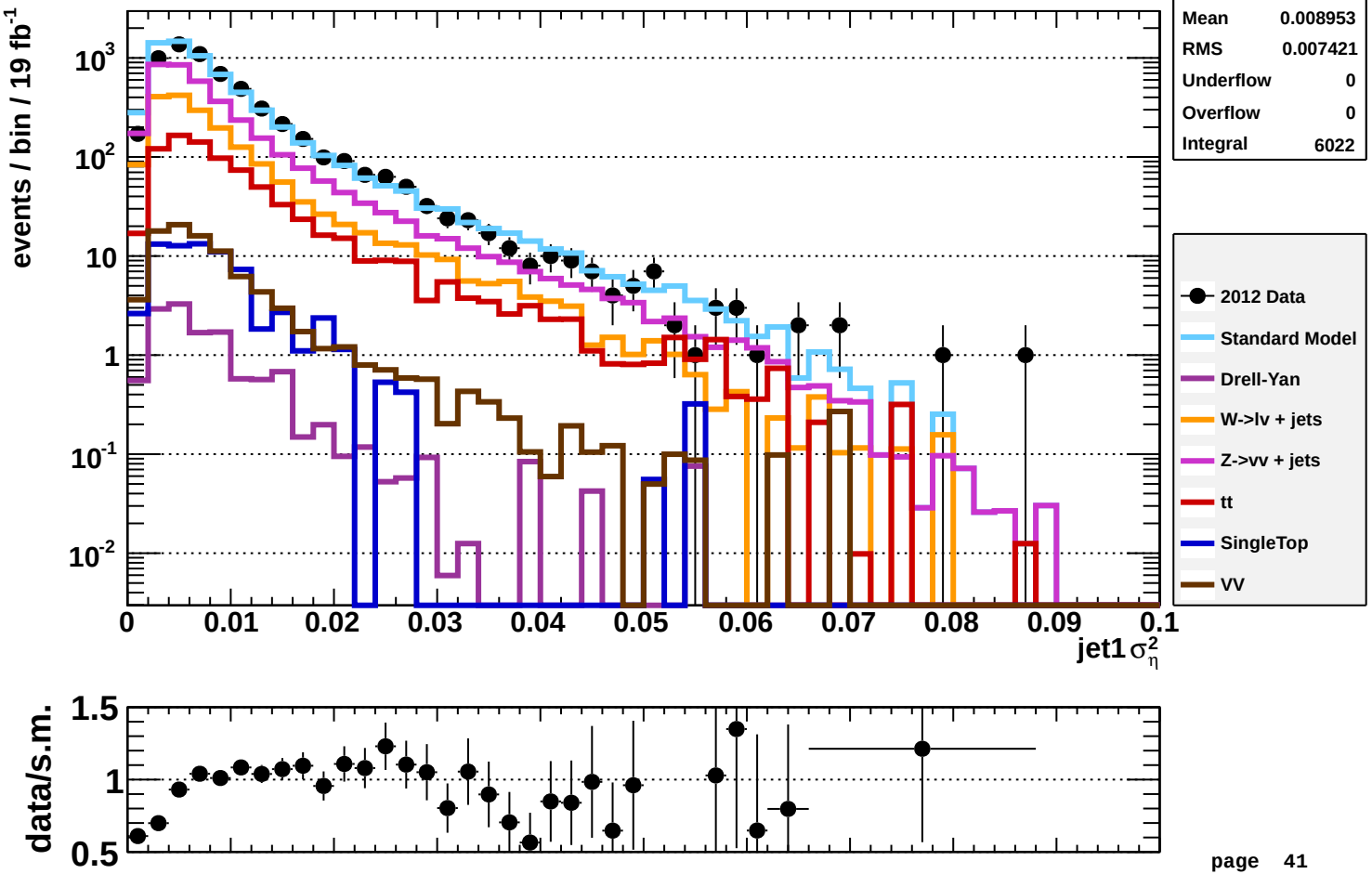
r:	jetPtSelector	xcak5JetPat; pT[index[1]]>=100.0 GeV
s:	value	375.00<=xcak5JetSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPat
u:	multiplicity	0 <= xcak5JetIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetIndicesPat
w:	multiplicity	0 <= xcak5JetIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPat <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	CaloRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetAlphaTEtPat
G:	value	0.10<=xcak5JetMaxEmEnergyFractionPat
H:	value	1.00<=hcalLaserEvent2012
I:	value	1.00<=ecalLaserCalibEvent2012

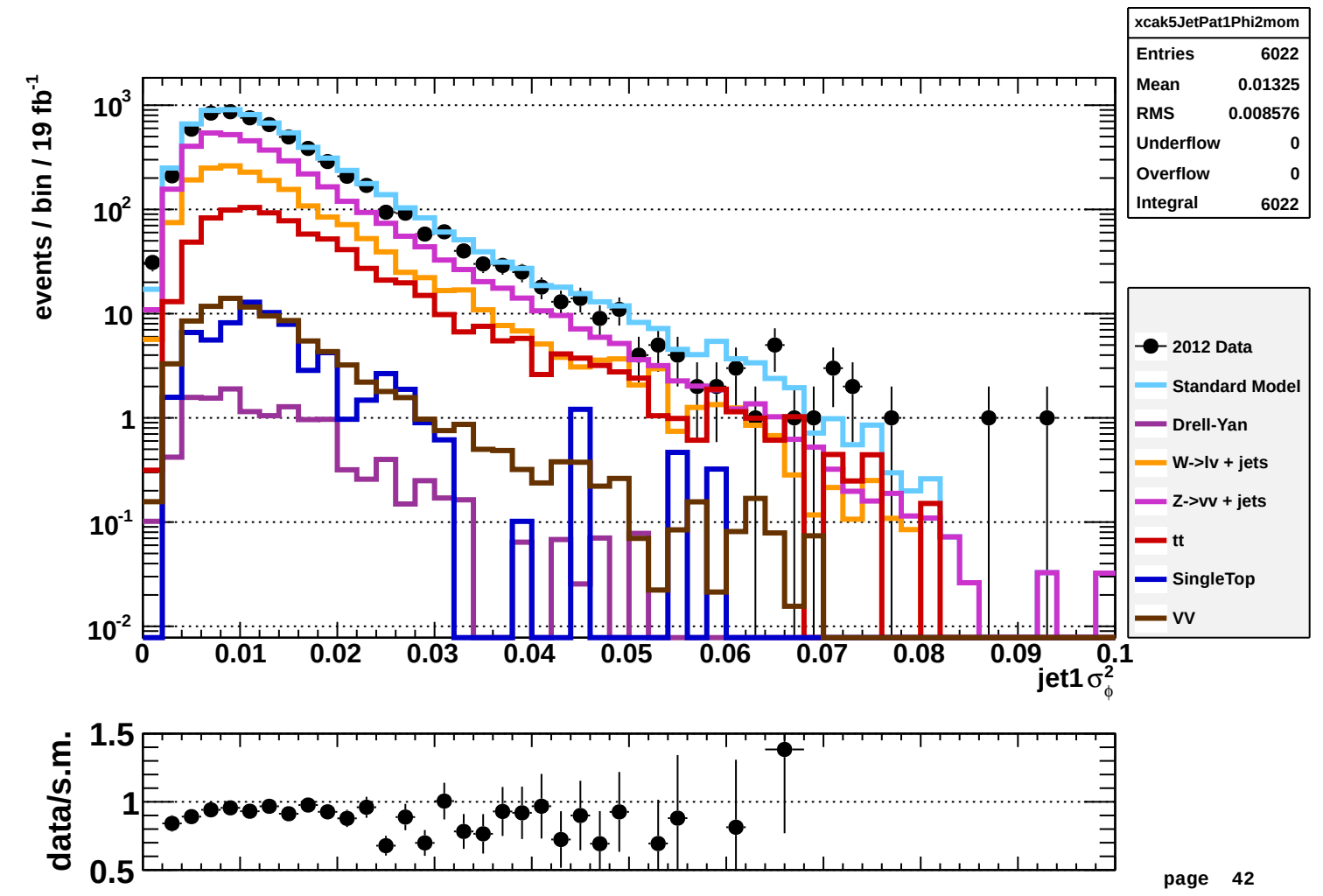
	2012 Data Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
r:	7630042 2.542(-)e+6	1.215(2)e+5	9.909(8)e+5	2.373(1)e+5	9.405(5)e+5	1.893(3)e+5	6.268(8)e+4	3.001(2)
s:	7233757 1.2330(5)e+6	4.455(6)e+4	3.552(3)e+5	9.109(6)e+4	6.207(4)e+5	9.34(2)e+4	2.799(5)e+4	5.867(3)
t:	7220369 1.2238(5)e+6	4.415(6)e+4	3.533(3)e+5	9.104(6)e+4	6.146(4)e+5	9.28(2)e+4	2.792(5)e+4	5.900(3)
u:	7190235 1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
v:	7190235 1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
w:	6774586 1.1844(5)e+6	4.265(6)e+4	3.456(3)e+5	8.984(6)e+4	5.898(4)e+5	8.92(2)e+4	2.735(5)e+4	5.720(3)
x:	6742525 1.0119(5)e+6	2.676(5)e+4	2.539(2)e+5	8.981(6)e+4	5.315(3)e+5	8.37(2)e+4	2.618(5)e+4	6.663(4)
y:	6713053 1.0049(5)e+6	2.613(5)e+4	2.496(2)e+5	8.977(6)e+4	5.298(3)e+5	8.35(2)e+4	2.605(5)e+4	6.681(4)
z:	6688261 8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982 8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567 8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167 2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)
D:	359924 1.370(1)e+5	2.01(2)e+3	4.482(9)e+4	3.679(4)e+4	4.265(9)e+4	7.96(6)e+3	2.80(2)e+3	2.627(5)
E:	354346 1.361(1)e+5	2.00(2)e+3	4.452(9)e+4	3.653(4)e+4	4.235(9)e+4	7.92(6)e+3	2.78(2)e+3	2.604(5)
F:	6047 6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.93(1)
G:	6037 6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.92(1)
H:	6037 -	-	-	-	-	-	-	
I:	6022 -	-	-	-	-	-	-	

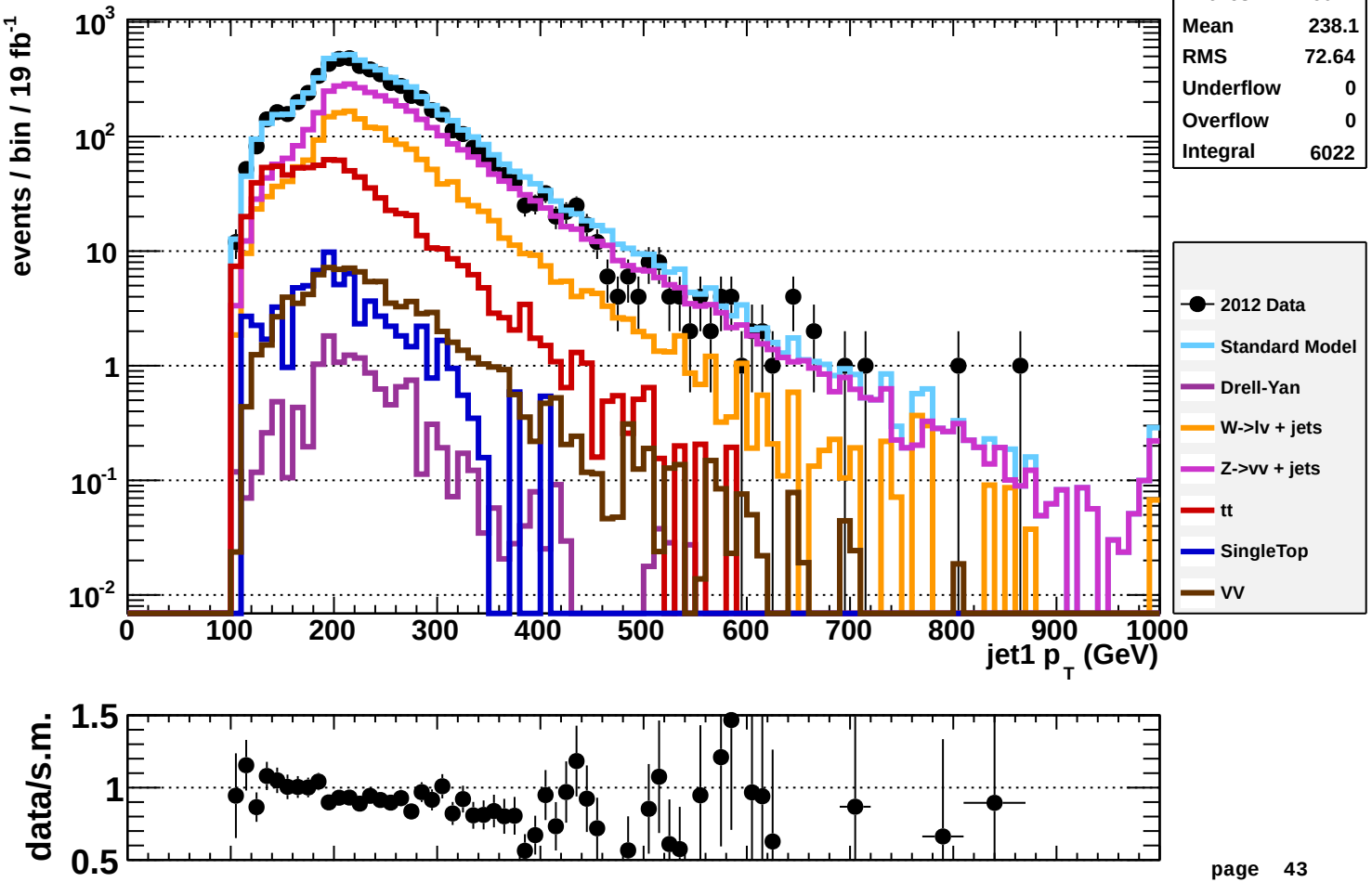

vertexIndices
Entries 6022
Mean 13.2
RMS 4.181
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
N vertices
data/s.m.

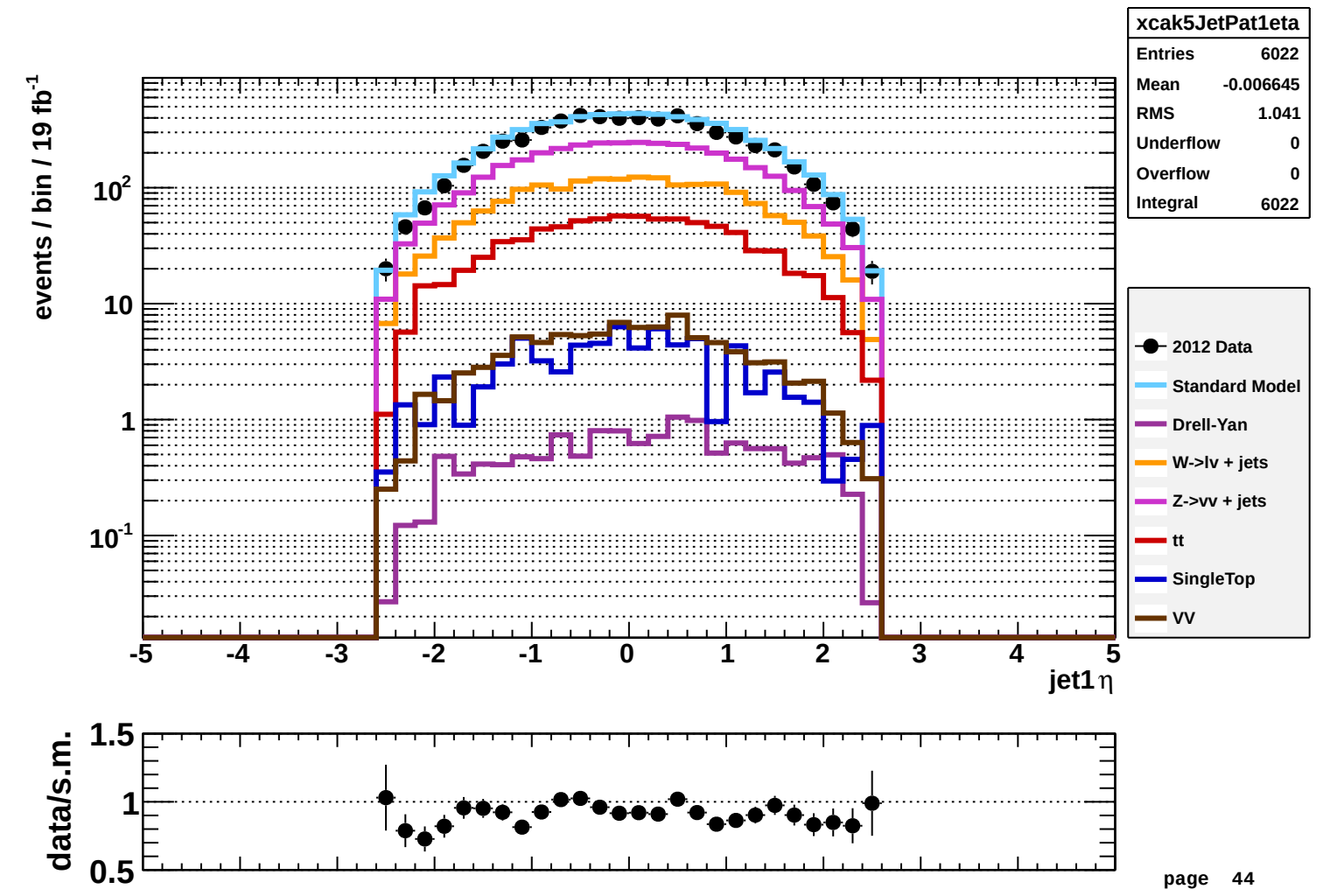

vertexSumPt
Entries 6022
Mean 39.28
RMS 15.86
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
SumPt of 2nd vertex (GeV)
data/s.m.

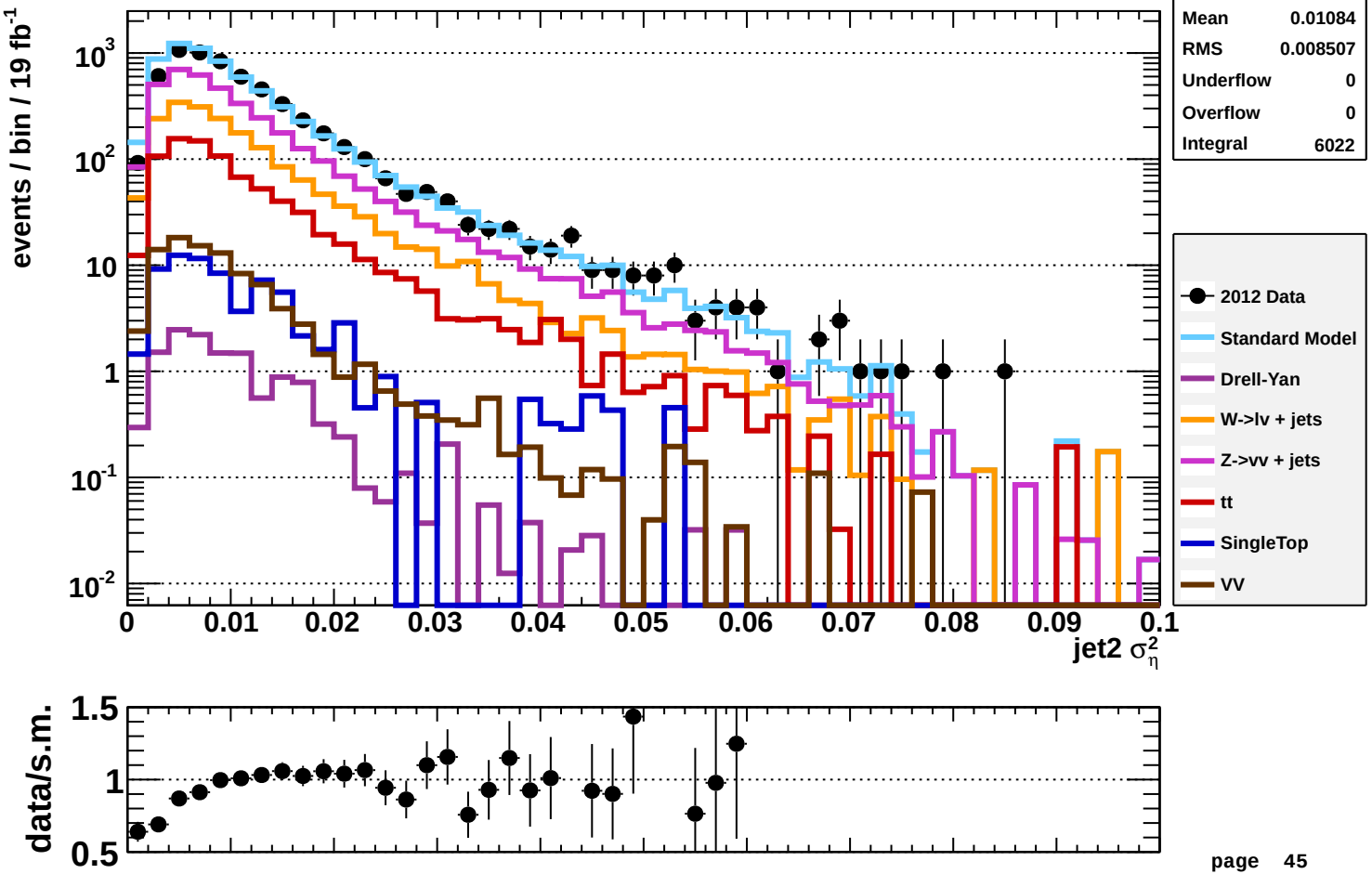

jetMultiplicity
Entries 6022
Mean 3.003
RMS 0.8692
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

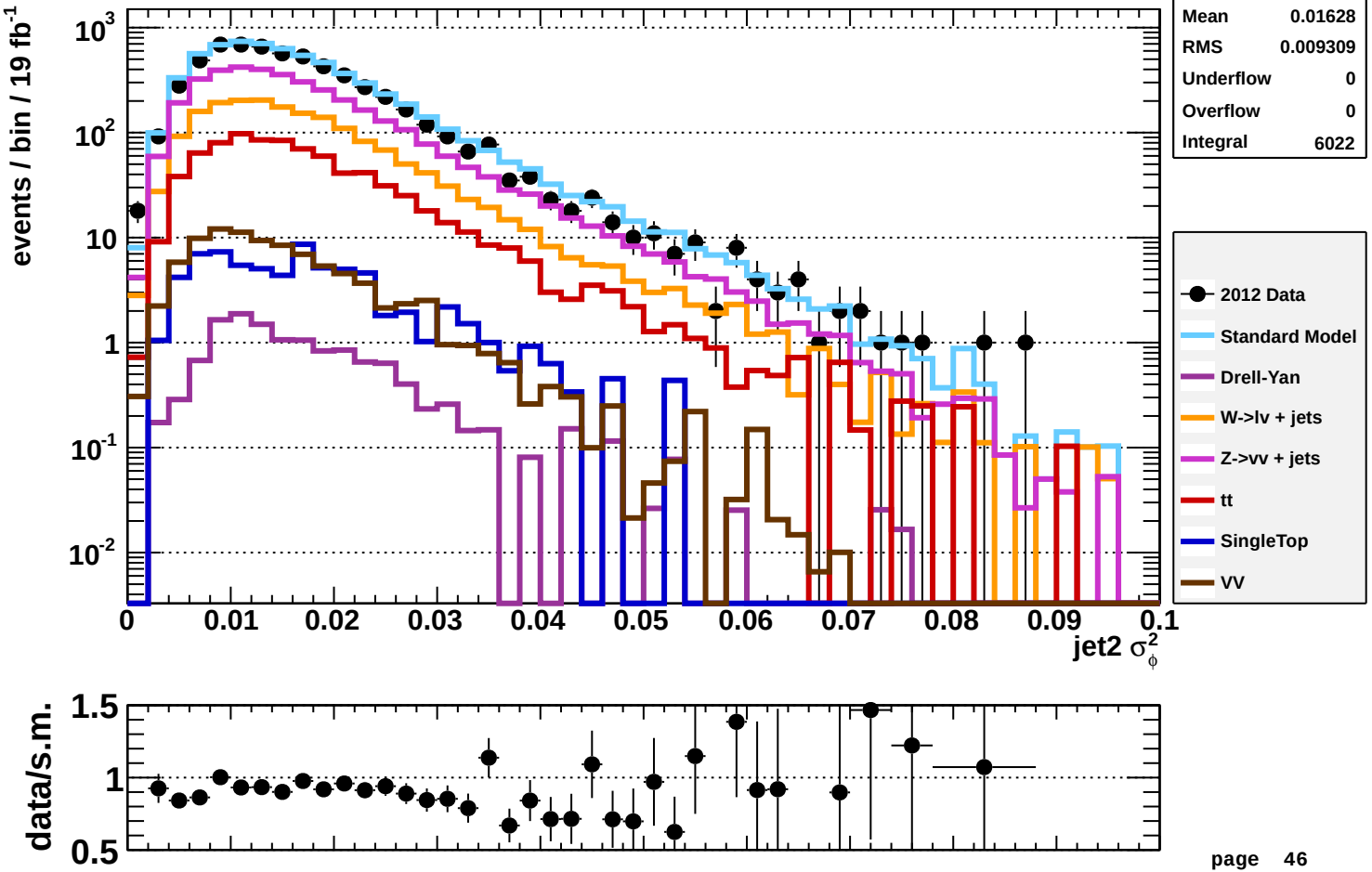

xcak5JetPat1Eta2mom
Entries 6022
Mean 0.008953
RMS 0.007421
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 σ2η
data/s.m.

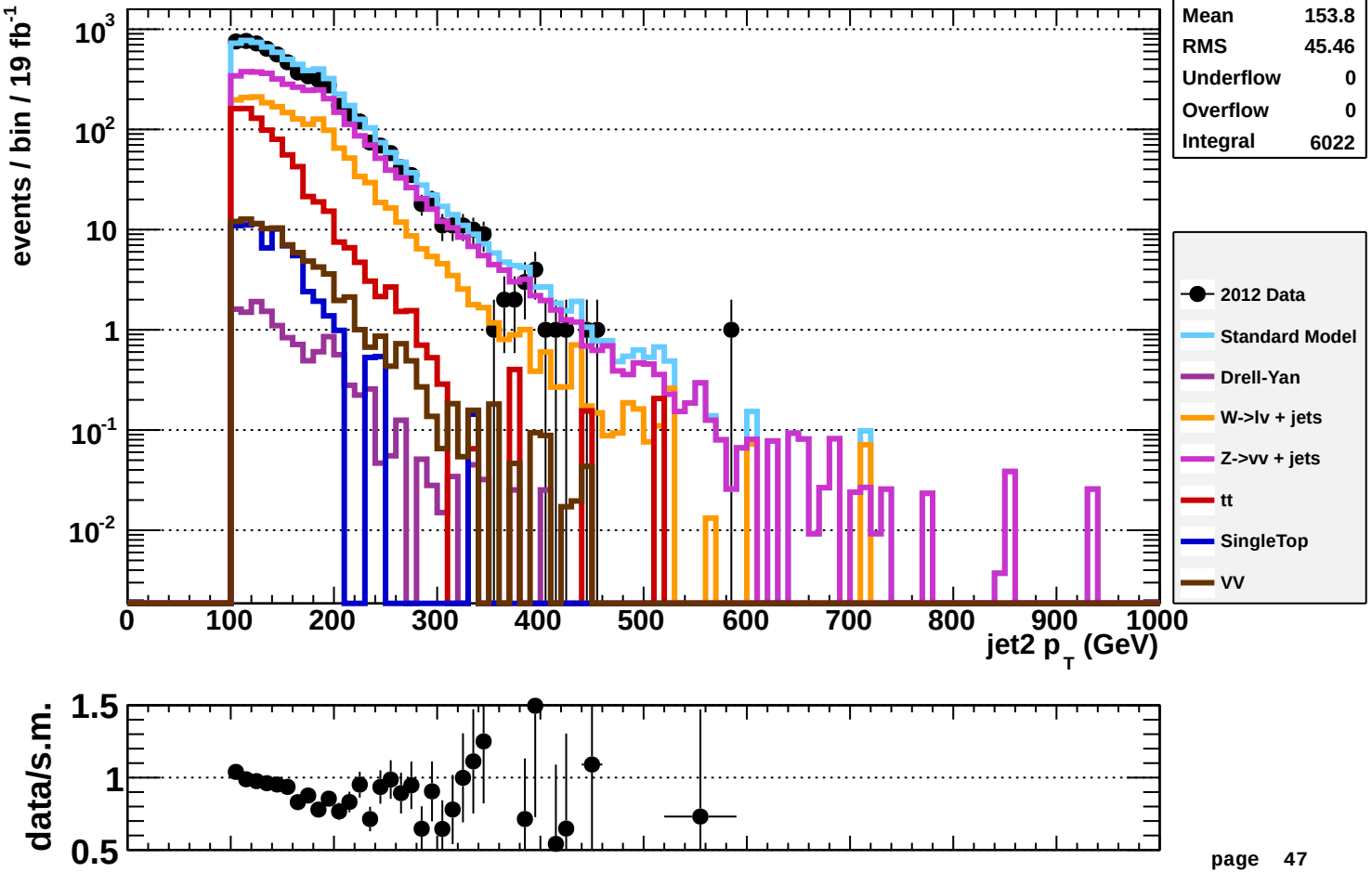

xcak5JetPat1Phi2mom
Entries 6022
Mean 0.01325
RMS 0.008576
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 σ2φ
data/s.m.

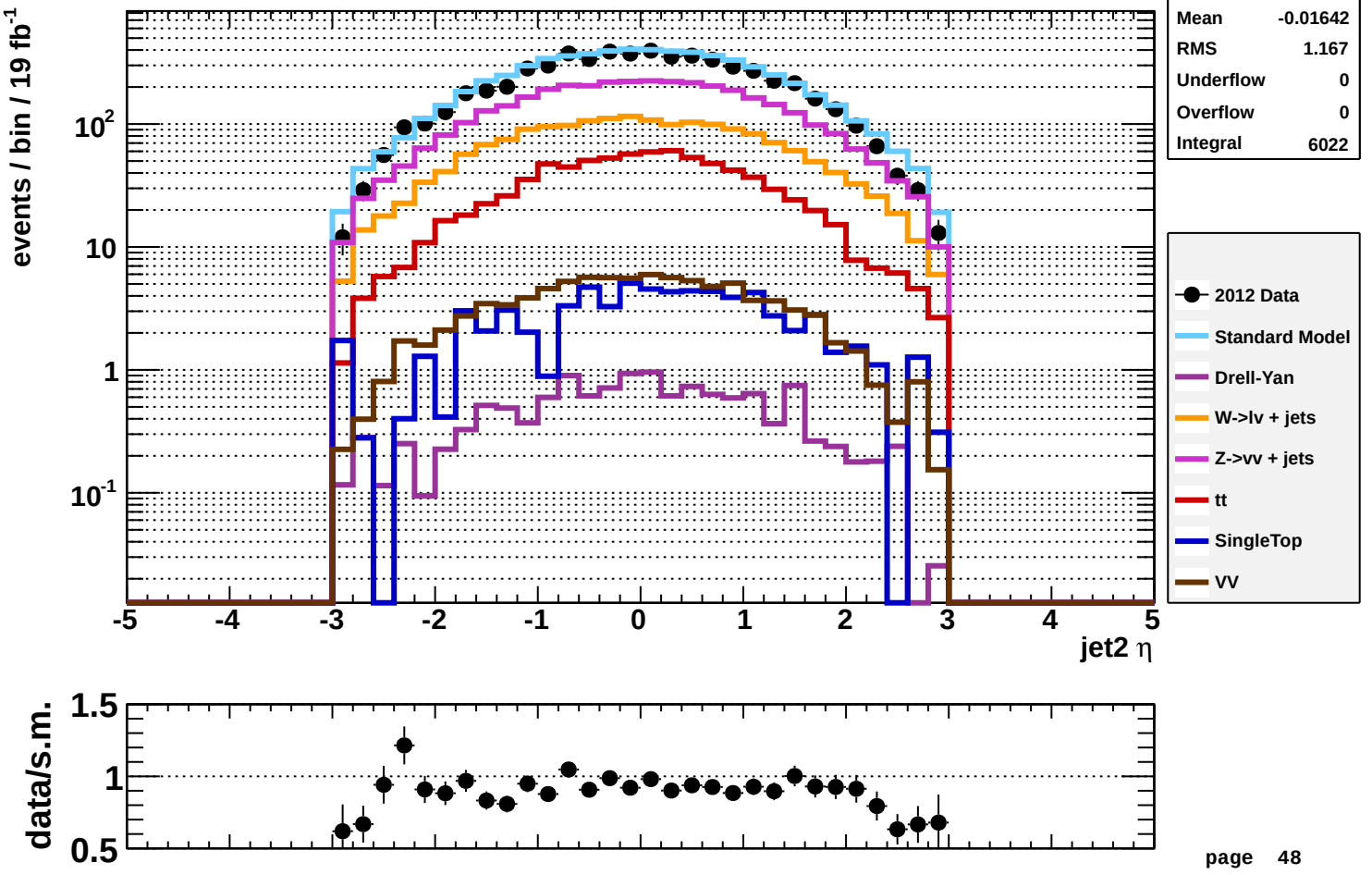

xcak5JetPat1Pt
Entries 6022
Mean 238.1
RMS 72.64
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 pT (GeV)
data/s.m.

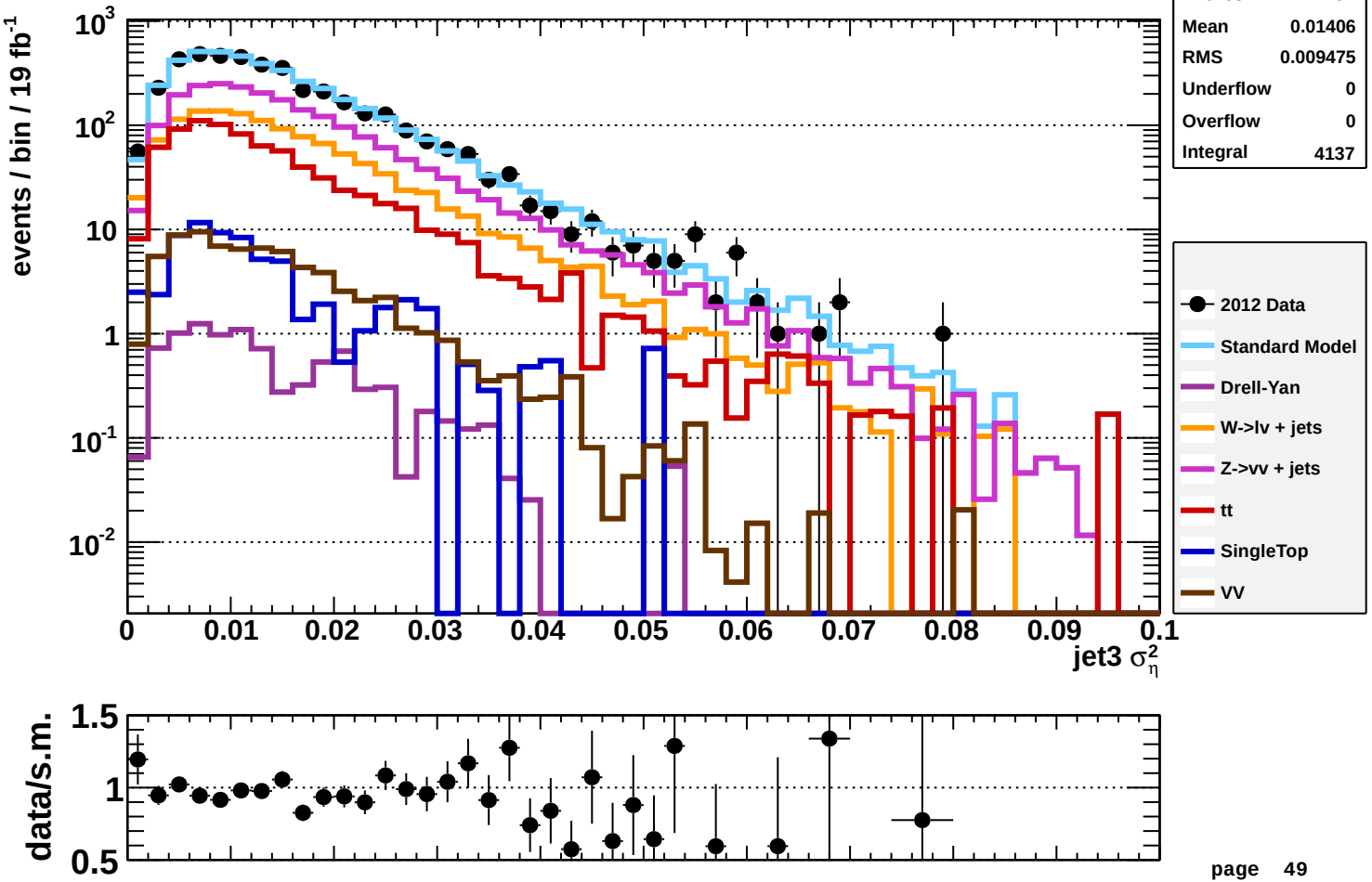

xcak5JetPat1eta
Entries 6022
Mean -0.006645
RMS 1.041
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet1 η
data/s.m.

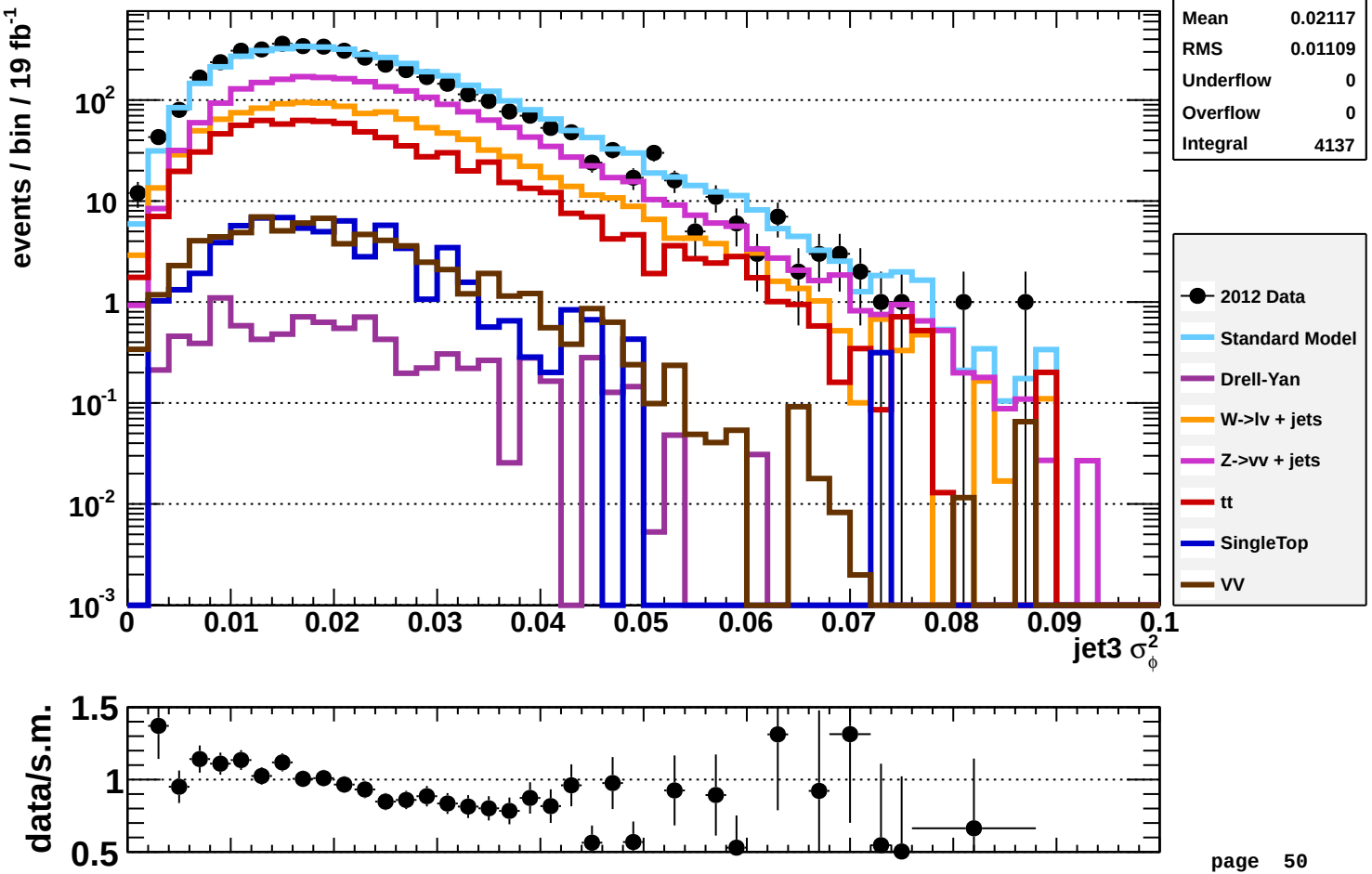

xcak5JetPat2Eta2mom
Entries 6022
Mean 0.01084
RMS 0.008507
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 σ2η
data/s.m.

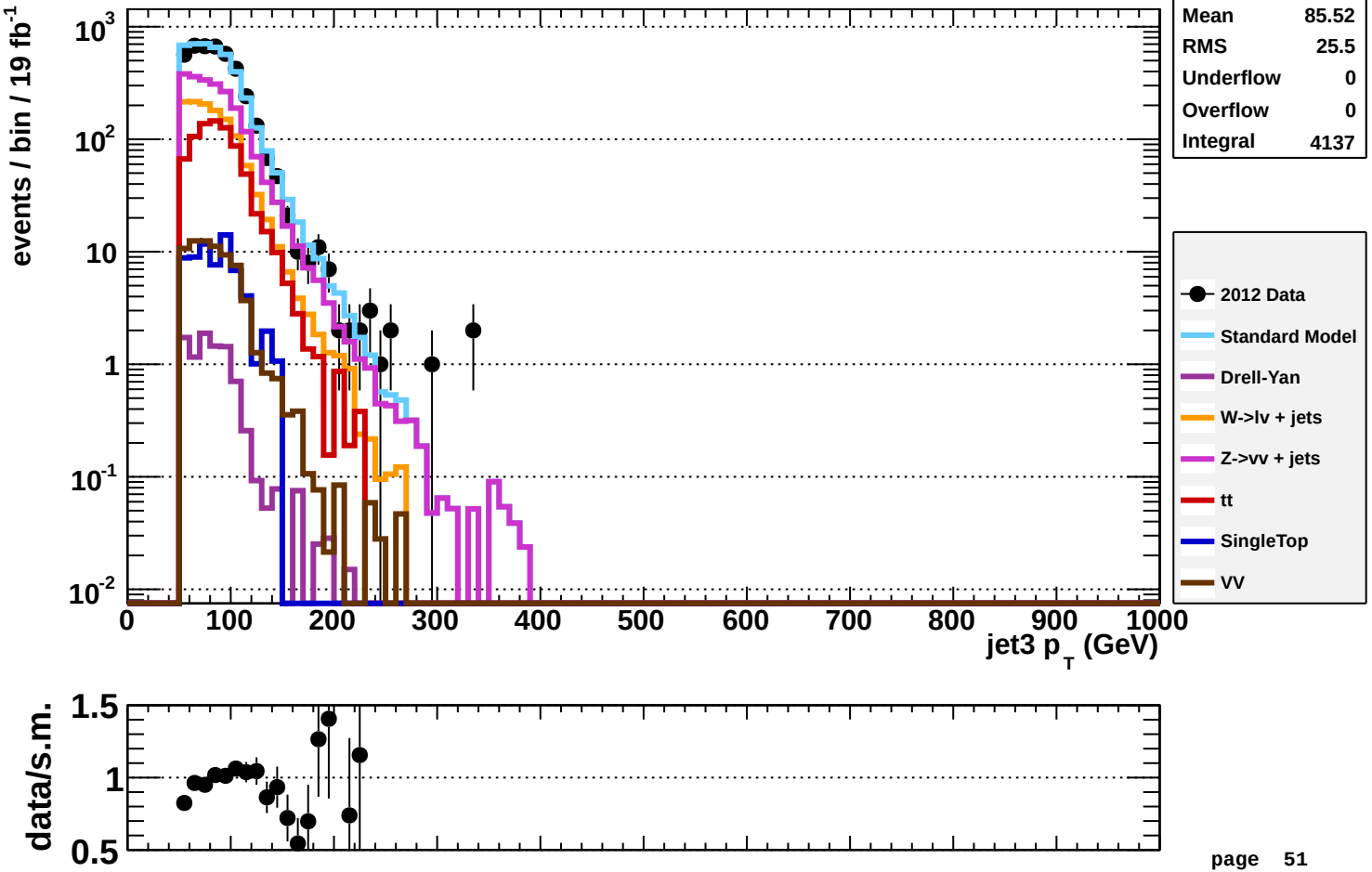

xcak5JetPat2Phi2mom
Entries 6022
Mean 0.01628
RMS 0.009309
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 σ2φ
data/s.m.

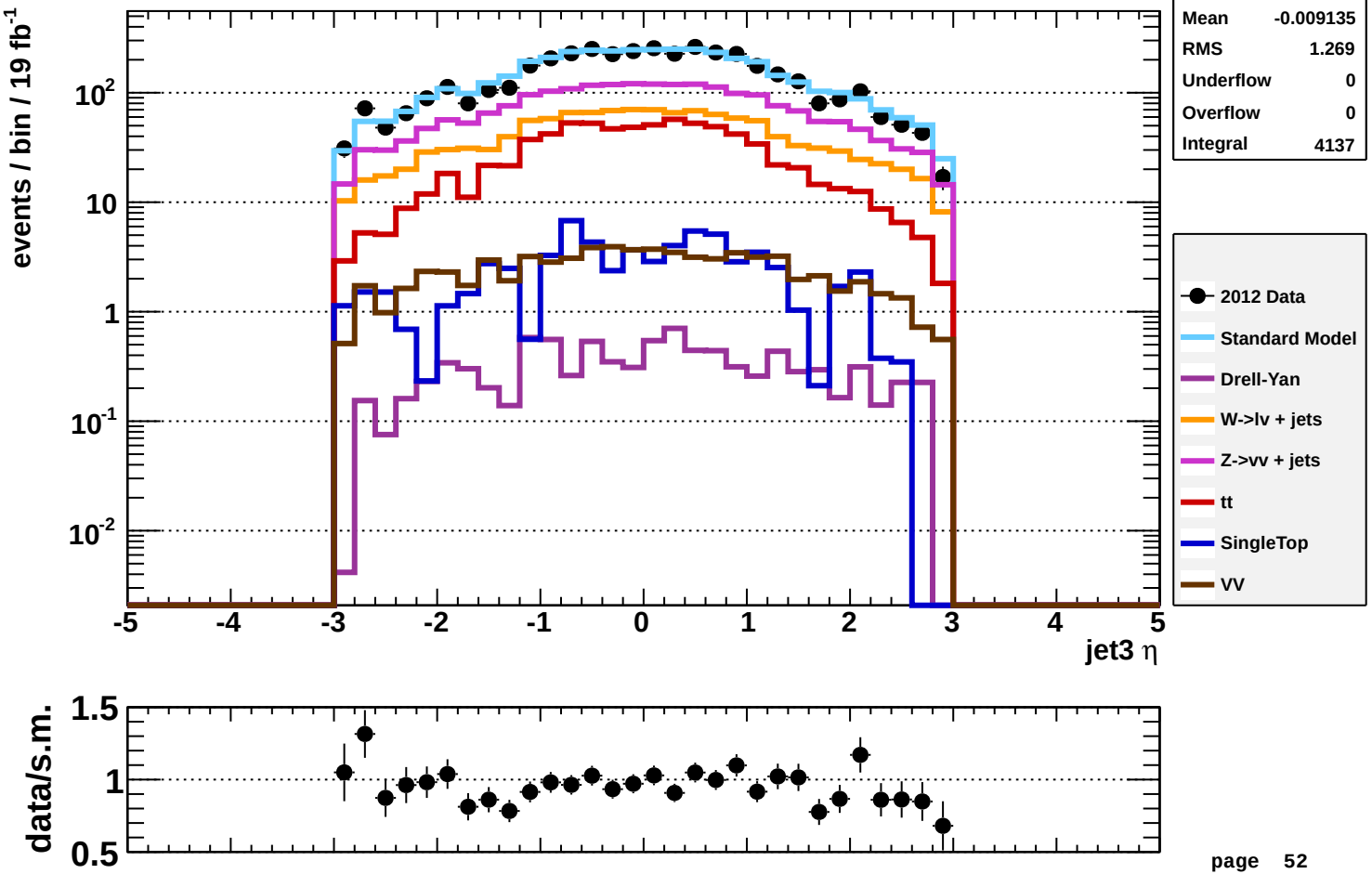

xcak5JetPat2Pt
Entries 6022
Mean 153.8
RMS 45.46
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 pT (GeV)
data/s.m.

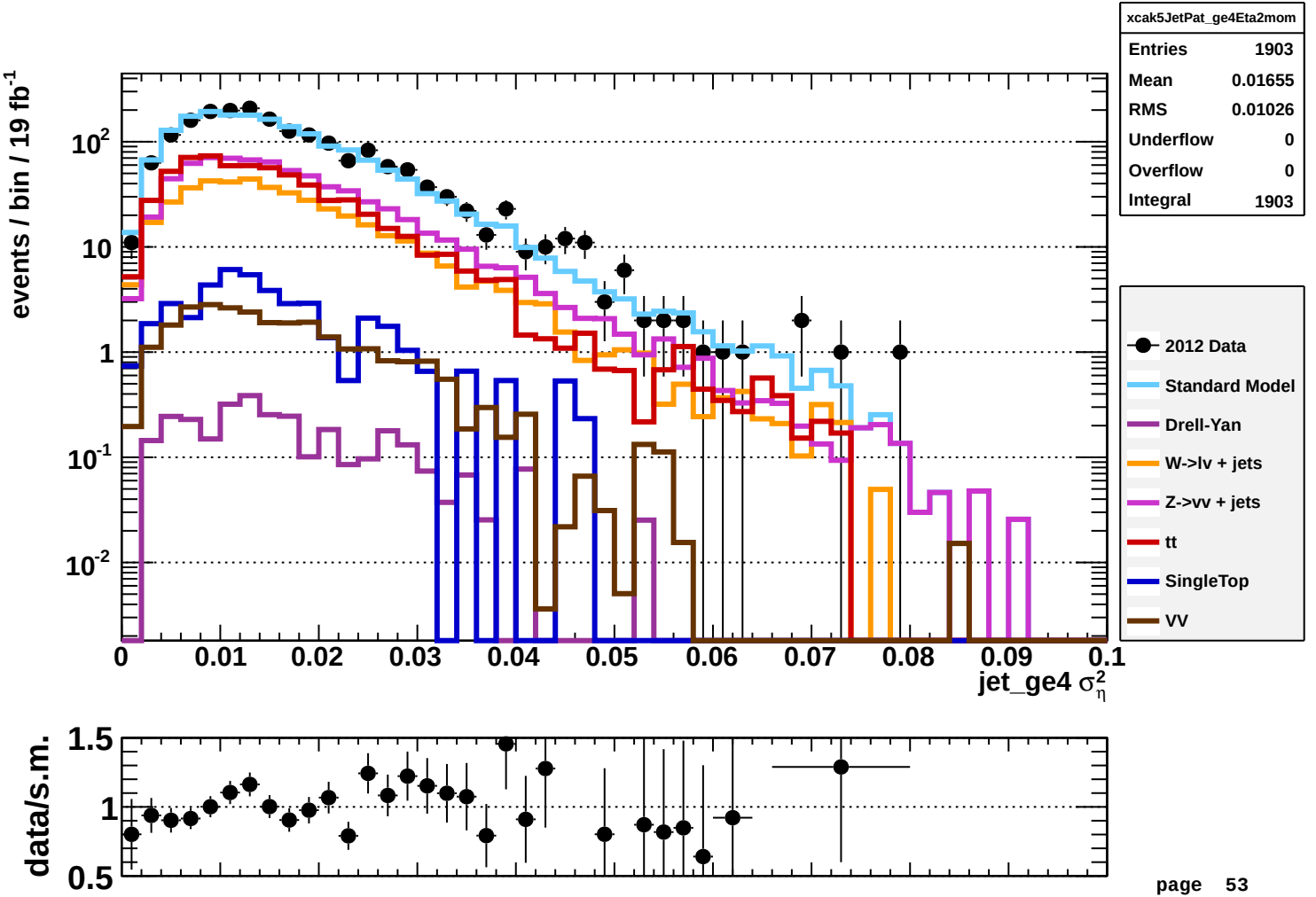

xcak5JetPat2eta
Entries 6022
Mean -0.01642
RMS 1.167
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet2 η
data/s.m.

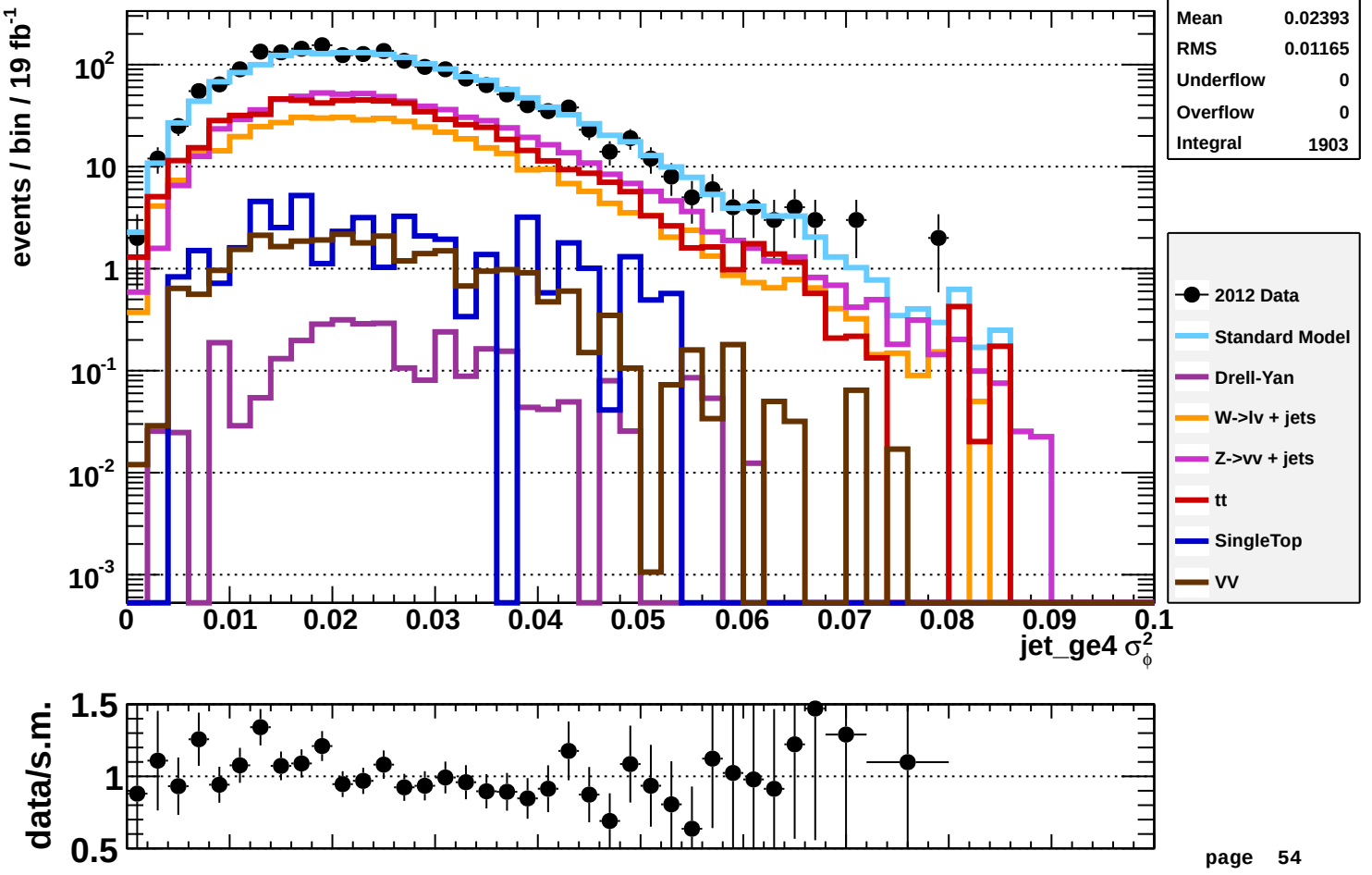

xcak5JetPat3Eta2mom
Entries 4137
Mean 0.01406
RMS 0.009475
Underflow 0
Overflow 0
Integral 4137
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 σ2η
data/s.m.

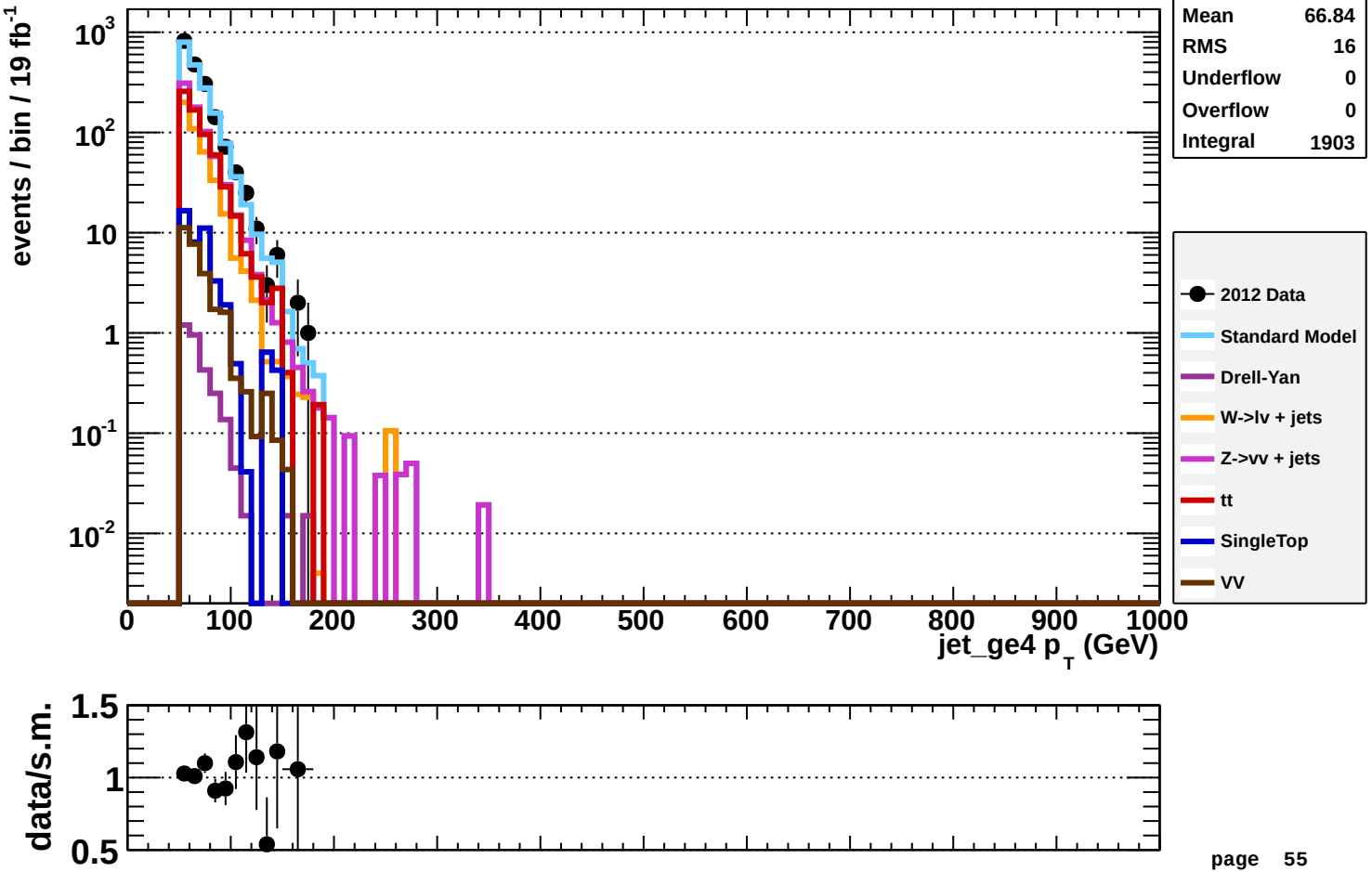

xcak5JetPat3Phi2mom
Entries 4137
Mean 0.02117
RMS 0.01109
Underflow 0
Overflow 0
Integral 4137
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 σ2φ
data/s.m.

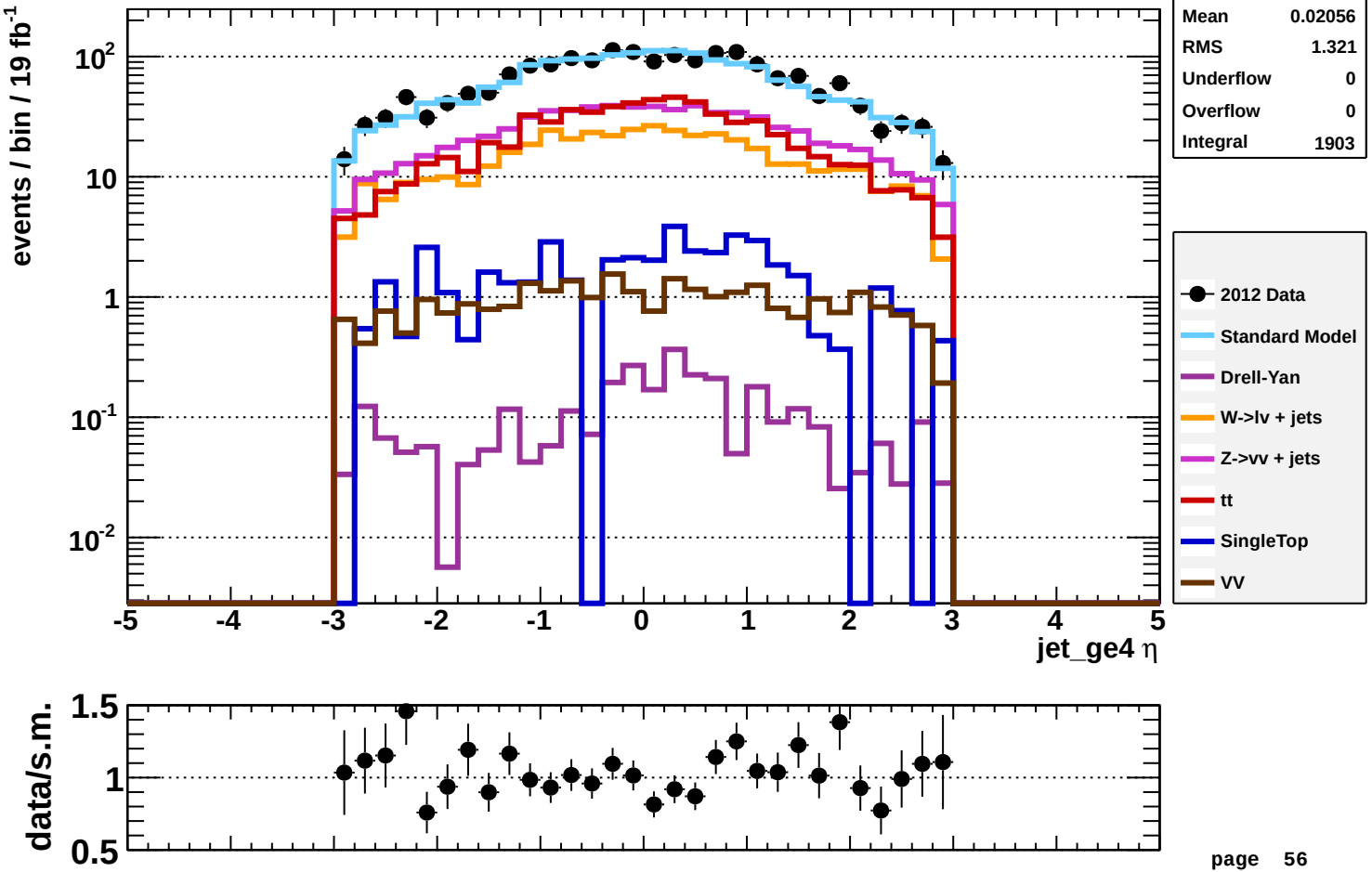

xcak5JetPat3Pt
Entries 4137
Mean 85.52
RMS 25.5
Underflow 0
Overflow 0
Integral 4137
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 pT (GeV)
data/s.m.

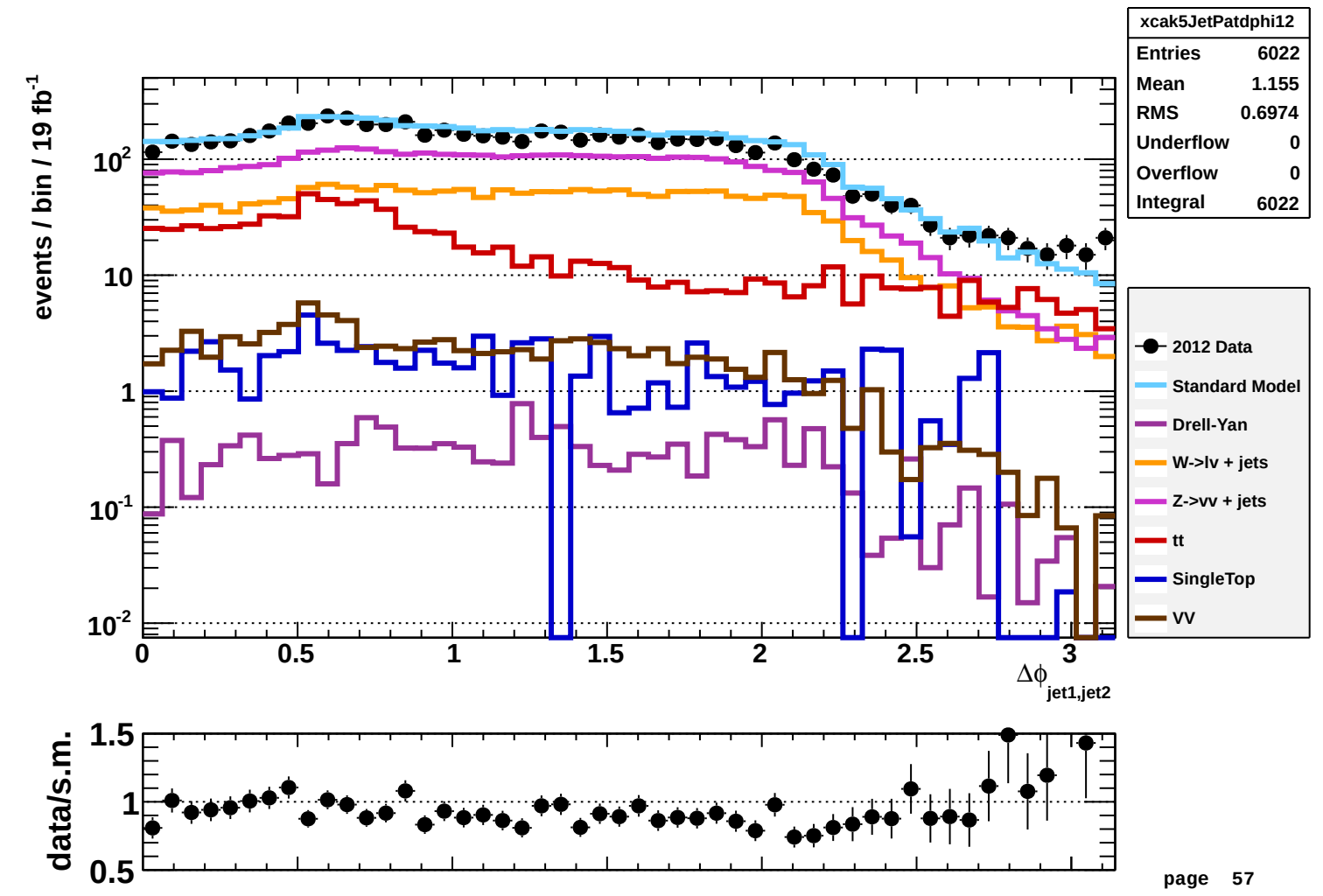

xcak5JetPat3eta
Entries 4137
Mean -0.009135
RMS 1.269
Underflow 0
Overflow 0
Integral 4137
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet3 η
data/s.m.

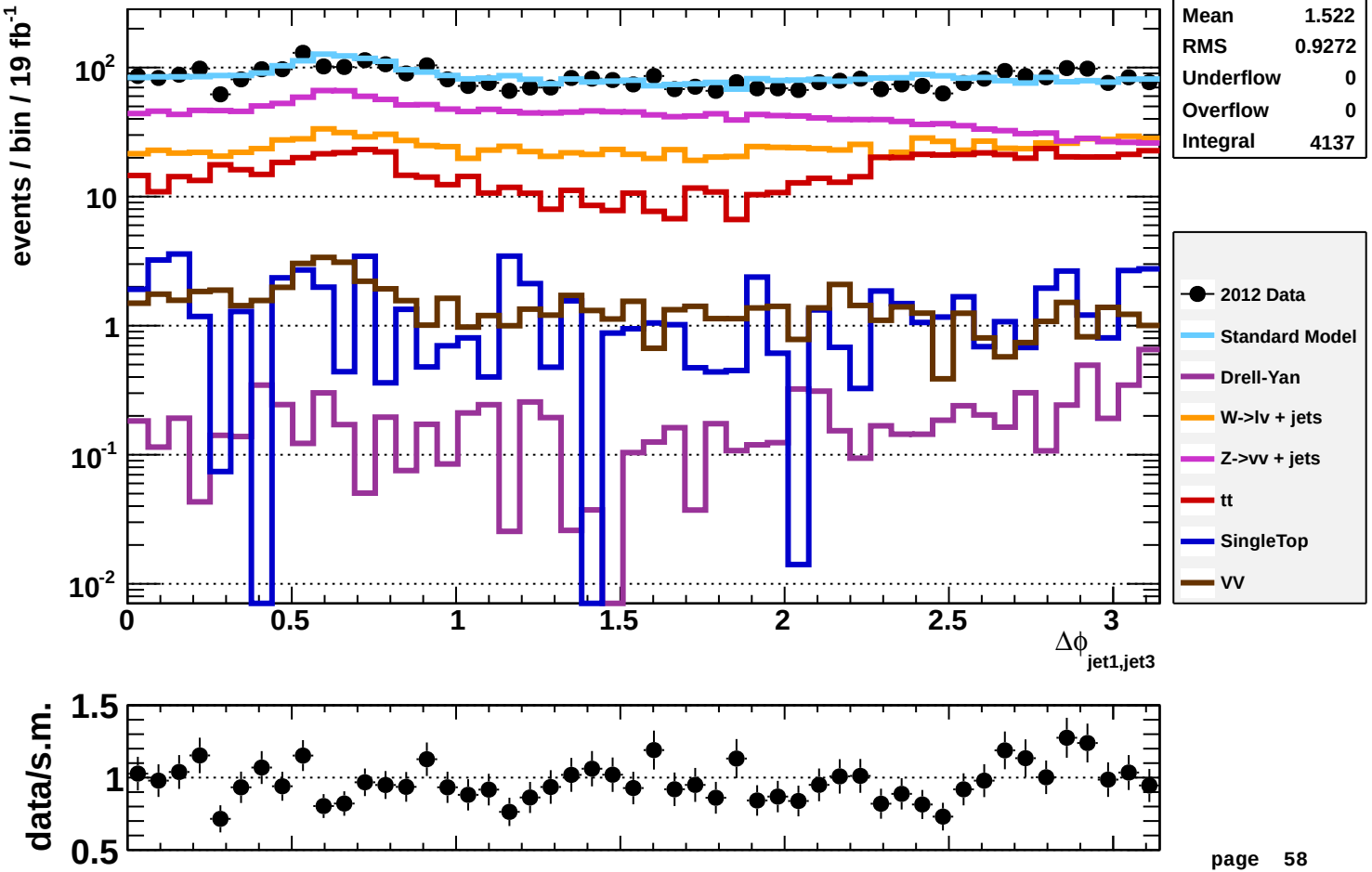

xcak5JetPat_ge4Eta2mom
Entries 1903
Mean 0.01655
RMS 0.01026
Underflow 0
Overflow 0
Integral 1903
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 σ2η
data/s.m.

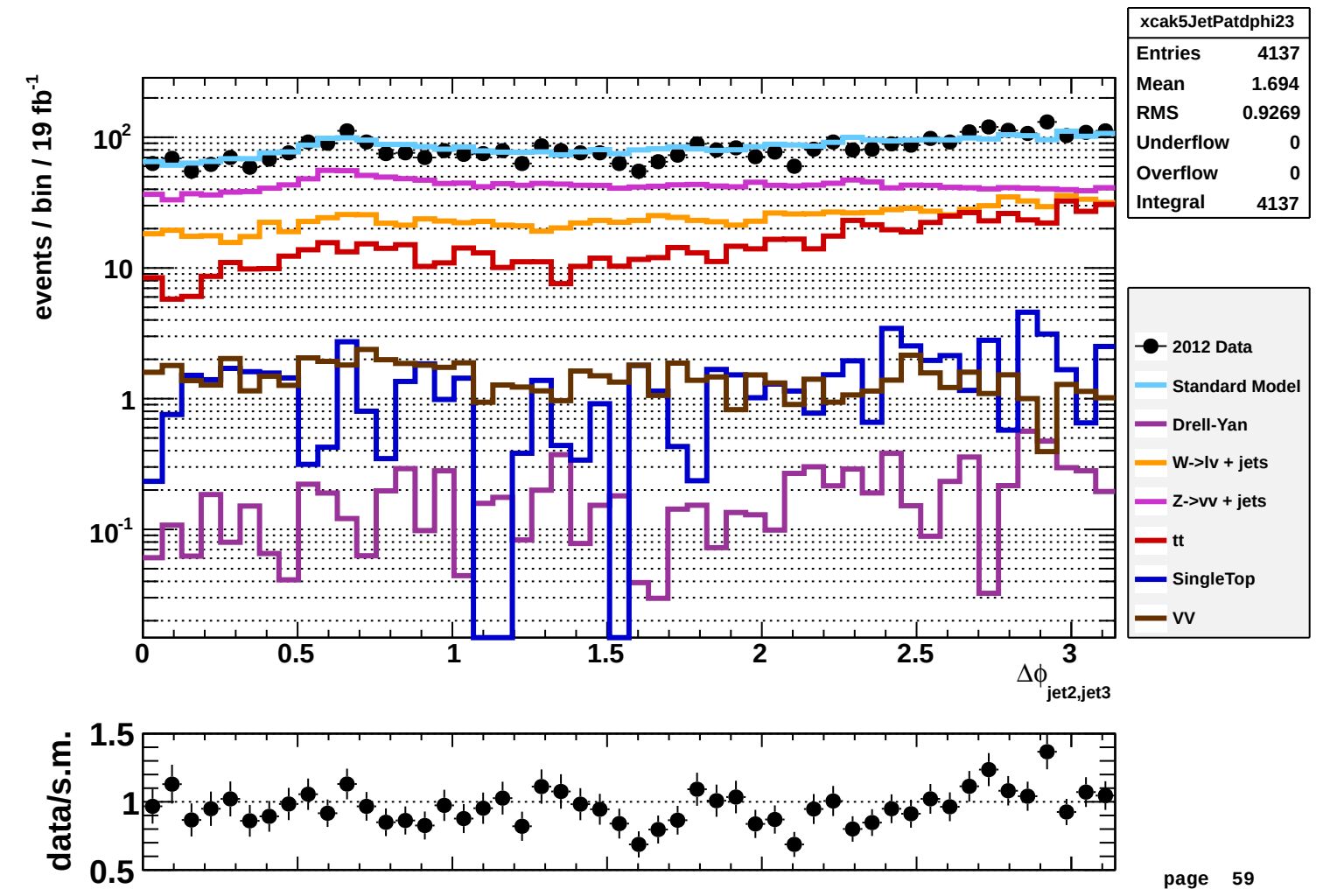

xcak5JetPat_ge4Phi2mom
Entries 1903
Mean 0.02393
RMS 0.01165
Underflow 0
Overflow 0
Integral 1903
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
jet_ge4 σ2φ
data/s.m.


xcak5JetPat_ge4Pt
Entries 1903
Mean 66.84
RMS 16
Underflow 0
Overflow 0
Integral 1903
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.


xcak5JetPat_ge4eta
Entries 1903
Mean 0.02056
RMS 1.321
Underflow 0
Overflow 0
Integral 1903
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.


xcak5JetPatdphi12
Entries 6022
Mean 1.155
RMS 0.6974
Underflow 0
Overflow 0
Integral 6022
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.


xcak5JetPatdphi13
Entries 4137
Mean 1.522
RMS 0.9272
Underflow 0
Overflow 0
Integral 4137
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.

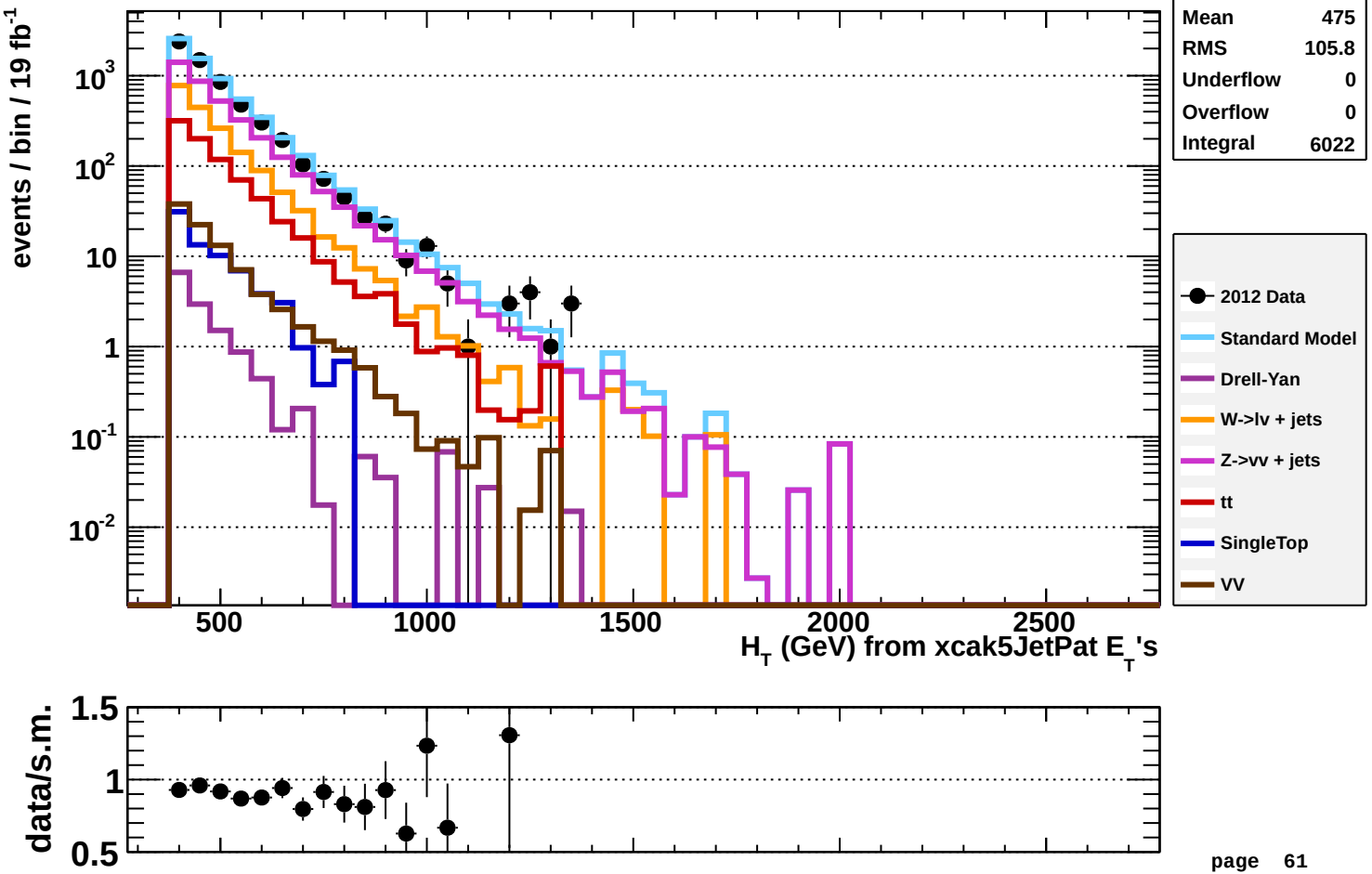

xcak5JetPatdphi23
Entries 4137
Mean 1.694
RMS 0.9269
Underflow 0
Overflow 0
Integral 4137
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ jet2,jet3
data/s.m.

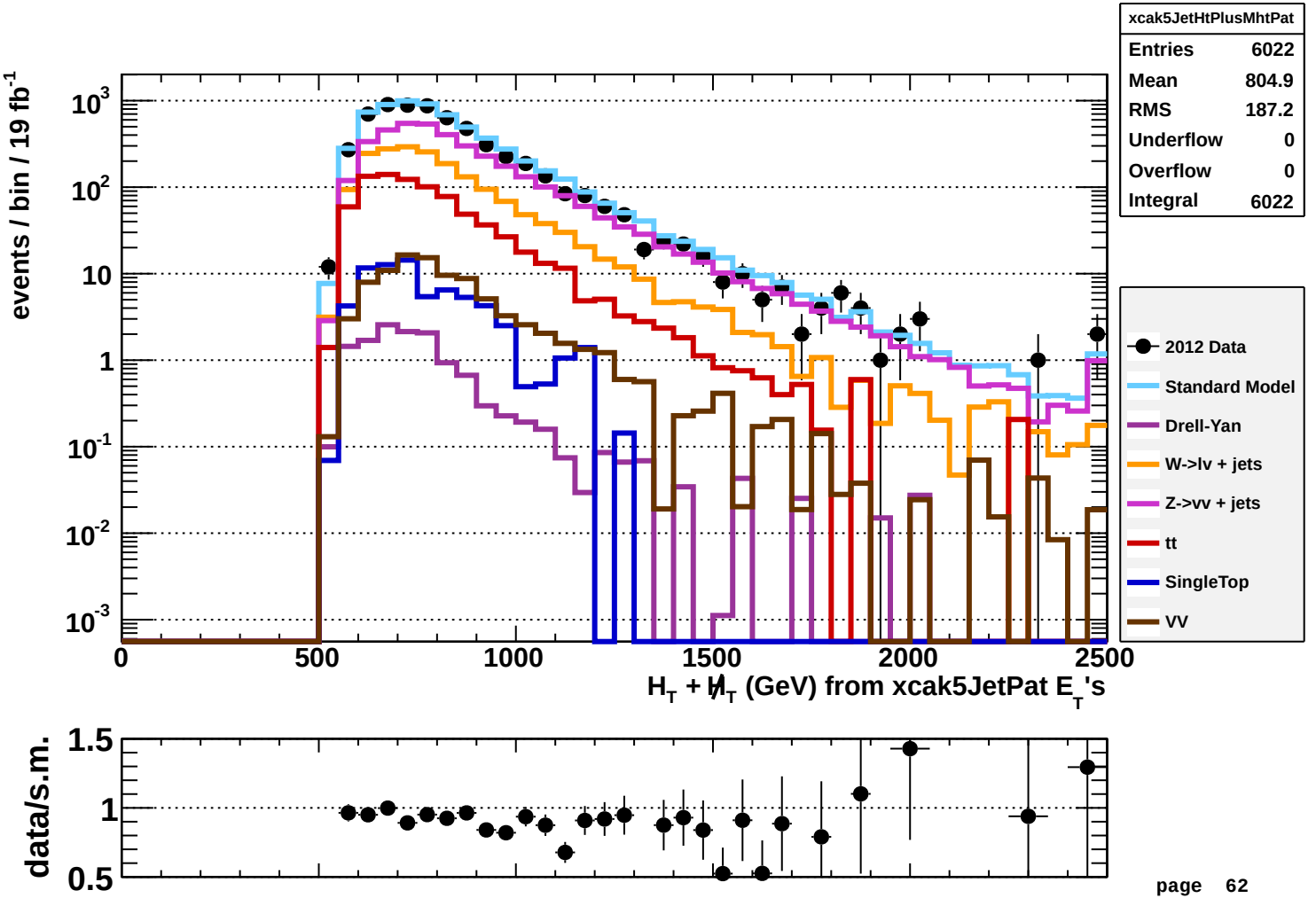
s:	value	375.00<=xcak5JetSumEtPat
t:	uniquelyMatchedNonisoMuons	xcak5JetPat
u:	multiplicity	0 <= xcak5JetIndicesWithOddMuonPat <= 0
v:	multiplicity	2 <= xcak5JetIndicesPat
w:	multiplicity	0 <= xcak5JetIndicesOtherPat <= 0
x:	multiplicity	0 <= electronIndicesPat <= 0
y:	multiplicity	0 <= photonIndicesPat <= 0
z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	CaloRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetAlphaTEtPat
G:	value	0.10<=xcak5JetMaxEmEnergyFractionPat
H:	value	1.00<=hcalLaserEvent2012
I:	value	1.00<=ecalLaserCalibEvent2012

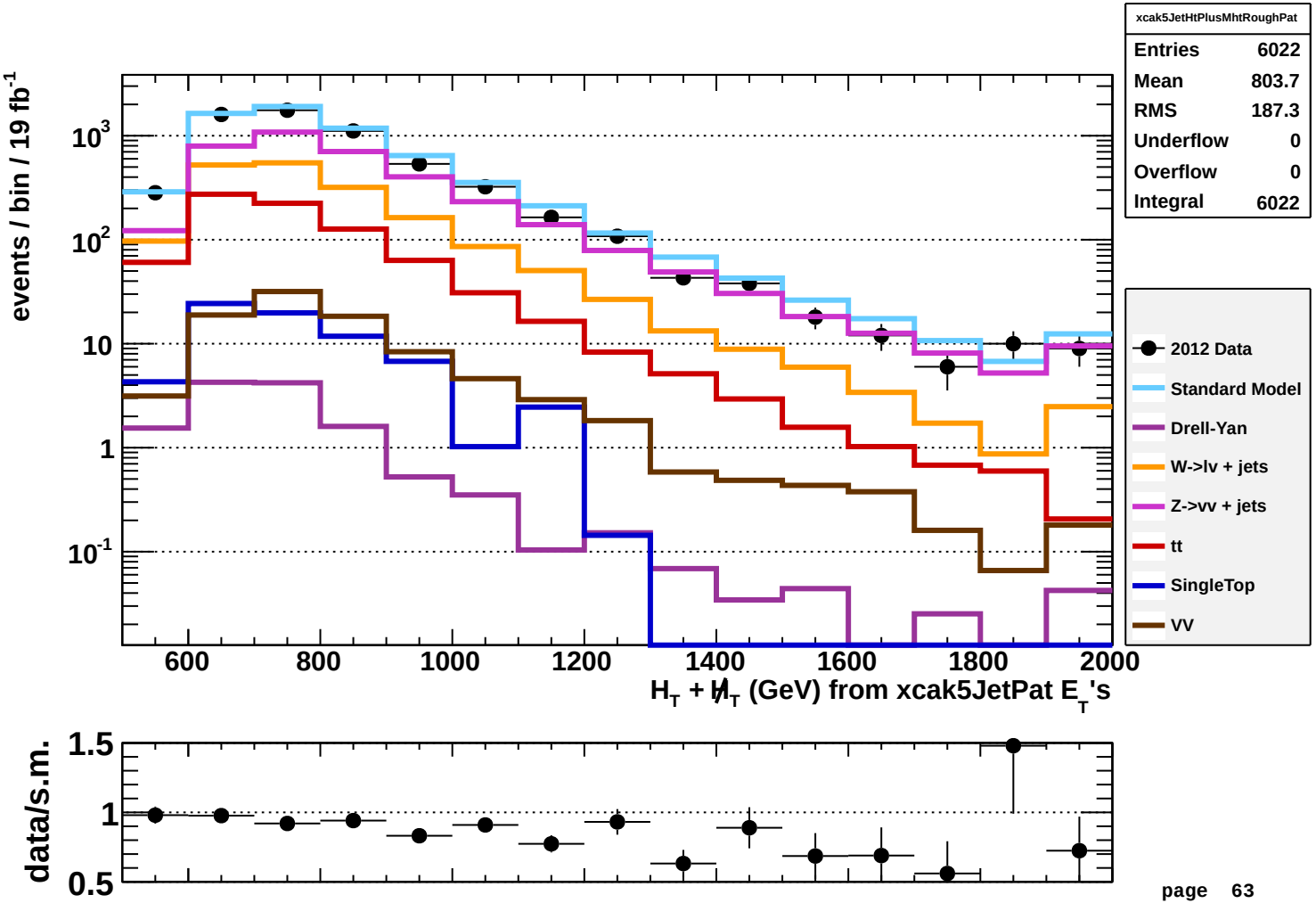
[jetSumPlots1]

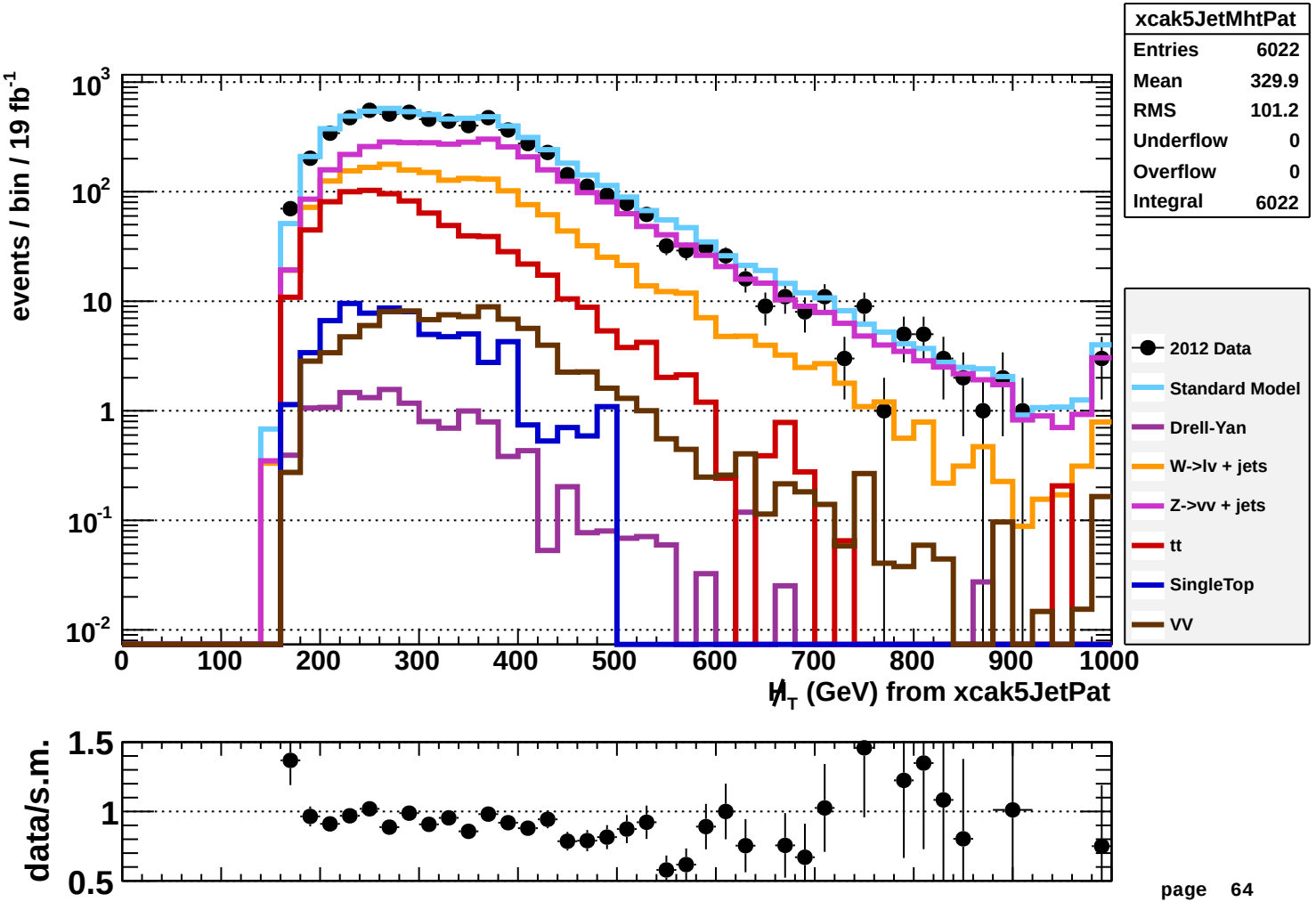
	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
s:	7233757	1.2330(5)e+6	4.455(6)e+4	3.552(3)e+5	9.109(6)e+4	6.207(4)e+5	9.34(2)e+4	2.799(5)e+4	5.867(3)
t:	7220369	1.2238(5)e+6	4.415(6)e+4	3.533(3)e+5	9.104(6)e+4	6.146(4)e+5	9.28(2)e+4	2.792(5)e+4	5.900(3)
u:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
v:	7190235	1.2139(5)e+6	4.383(6)e+4	3.519(3)e+5	9.099(6)e+4	6.074(4)e+5	9.19(2)e+4	2.787(5)e+4	5.923(3)
w:	6774586	1.1844(5)e+6	4.265(6)e+4	3.456(3)e+5	8.984(6)e+4	5.898(4)e+5	8.92(2)e+4	2.735(5)e+4	5.720(3)
x:	6742525	1.0119(5)e+6	2.676(5)e+4	2.539(2)e+5	8.981(6)e+4	5.315(3)e+5	8.37(2)e+4	2.618(5)e+4	6.663(4)
y:	6713053	1.0049(5)e+6	2.613(5)e+4	2.496(2)e+5	8.977(6)e+4	5.298(3)e+5	8.35(2)e+4	2.605(5)e+4	6.681(4)
z:	6688261	8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982	8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567	8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167	2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)
D:	359924	1.370(1)e+5	2.01(2)e+3	4.482(9)e+4	3.679(4)e+4	4.265(9)e+4	7.96(6)e+3	2.80(2)e+3	2.627(5)
E:	354346	1.361(1)e+5	2.00(2)e+3	4.452(9)e+4	3.653(4)e+4	4.235(9)e+4	7.92(6)e+3	2.78(2)e+3	2.604(5)
F:	6047	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.93(1)
G:	6037	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.92(1)
H:	6037	-	-	-	-	-	-	-	
I:	6022	-	-	-	-	-	-	-	

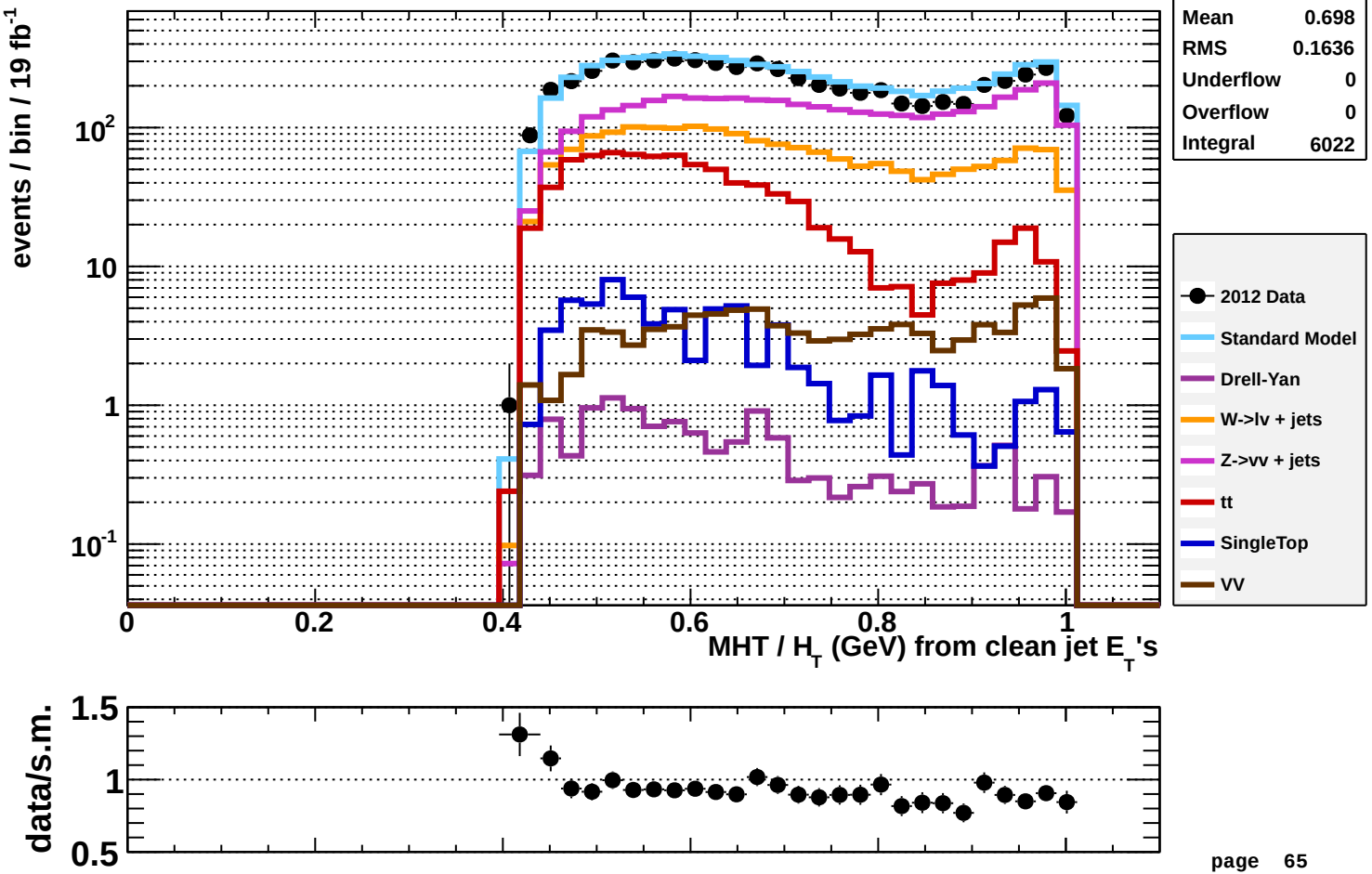
[jetSumPlots1]

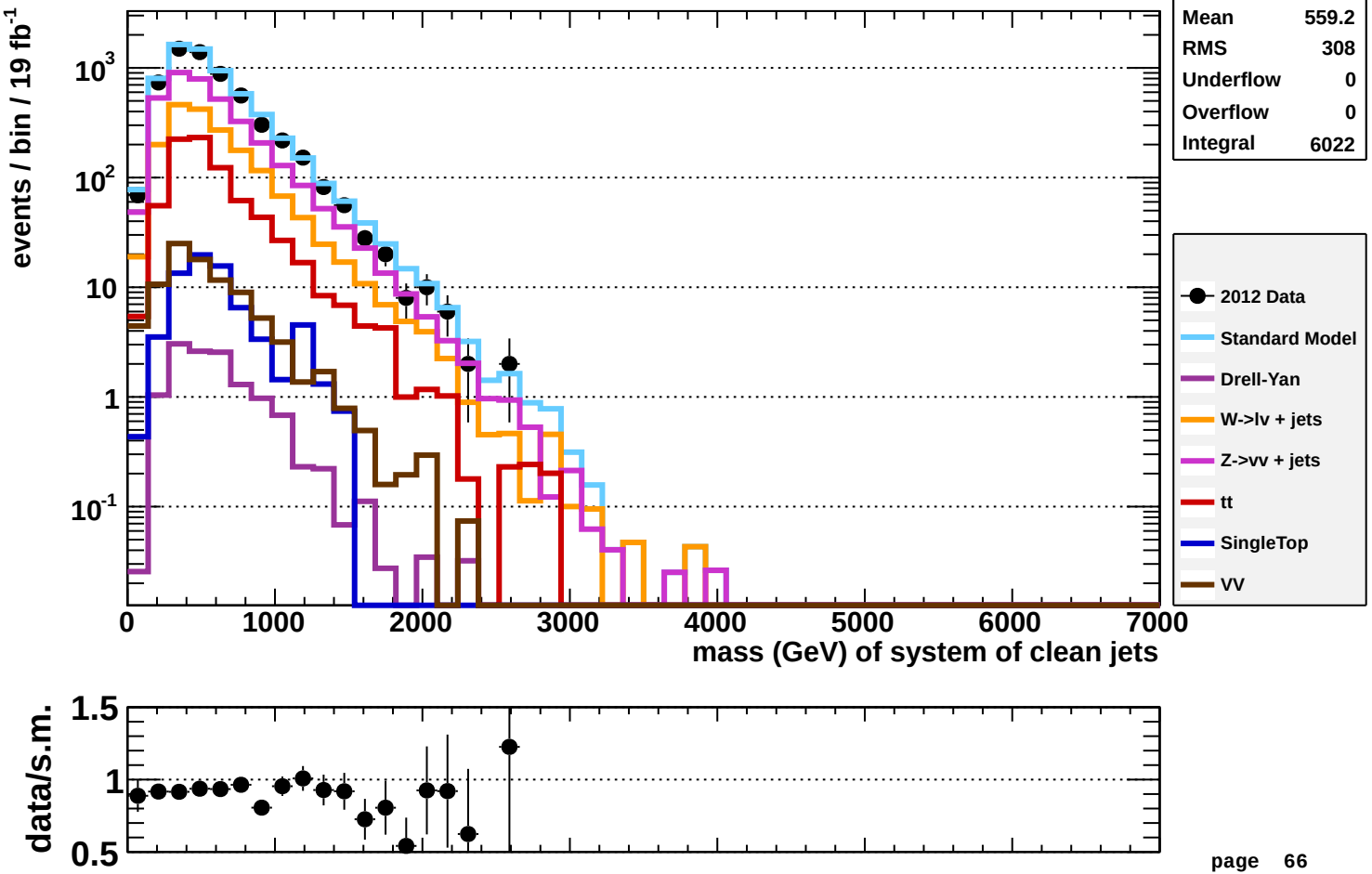

xcak5JetHtPat
Entries 6022
Mean 475
RMS 105.8
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetHtPlusMhtPat
Entries 6022
Mean 804.9
RMS 187.2
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + /H_T (GeV) from xcak5JetPat E_T's
data/s.m.

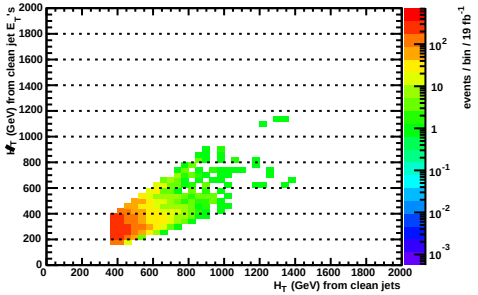

xcak5JetHtPlusMhtRoughPat
Entries 6022
Mean 803.7
RMS 187.3
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + MH_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetMhtPat
Entries 6022
Mean 329.9
RMS 101.2
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H/T (GeV) from xcak5JetPat
data/s.m.

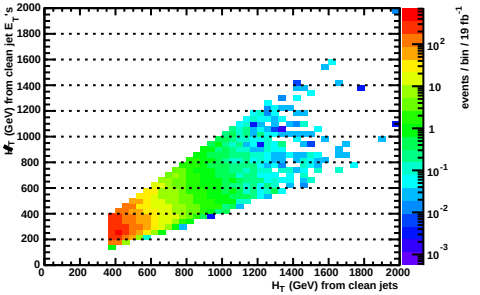

xcak5JetmHtOverHtPat
Entries 6022
Mean 0.698
RMS 0.1636
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT / HT (GeV) from clean jet ET's
data/s.m.


xcak5JetmPat
Entries 6022
Mean 559.2
RMS 308
Underflow 0
Overflow 0
Integral 6022
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.

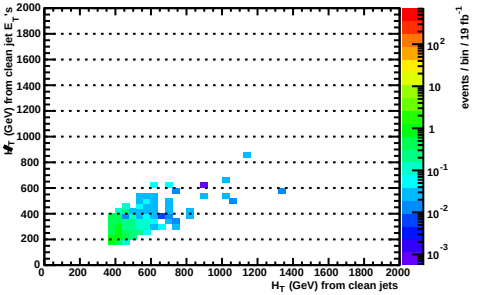
2012 Data



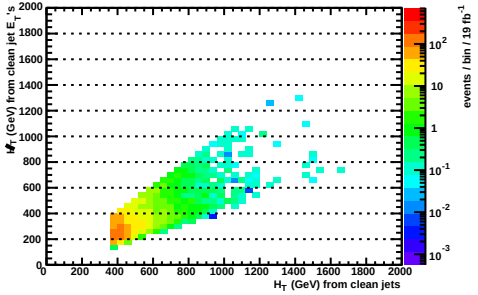
Standard Model



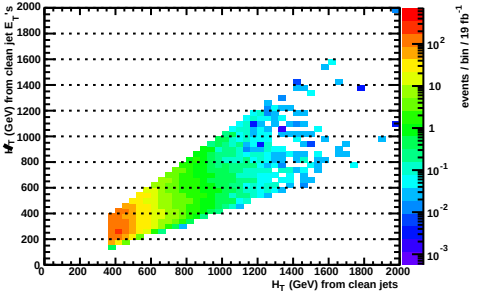
Drell-Yan



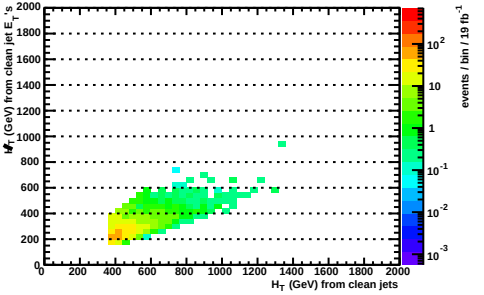
W->lv + jets



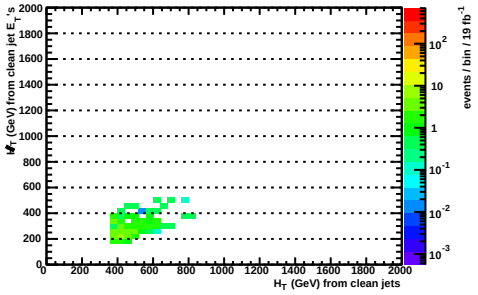
Z->vv + jets



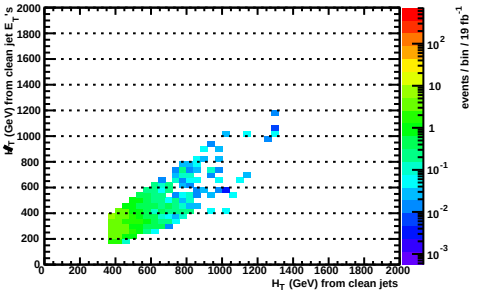
tt

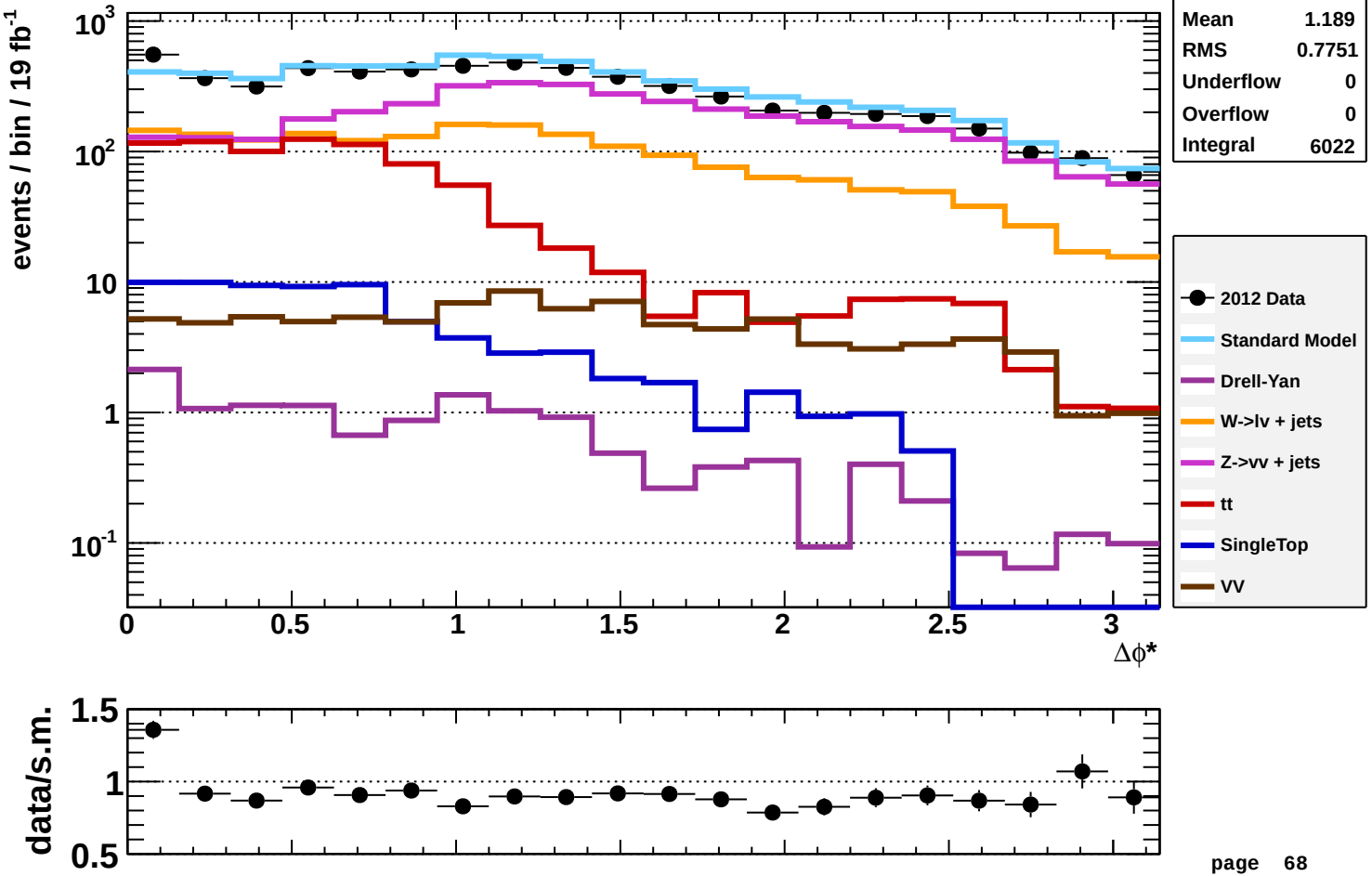


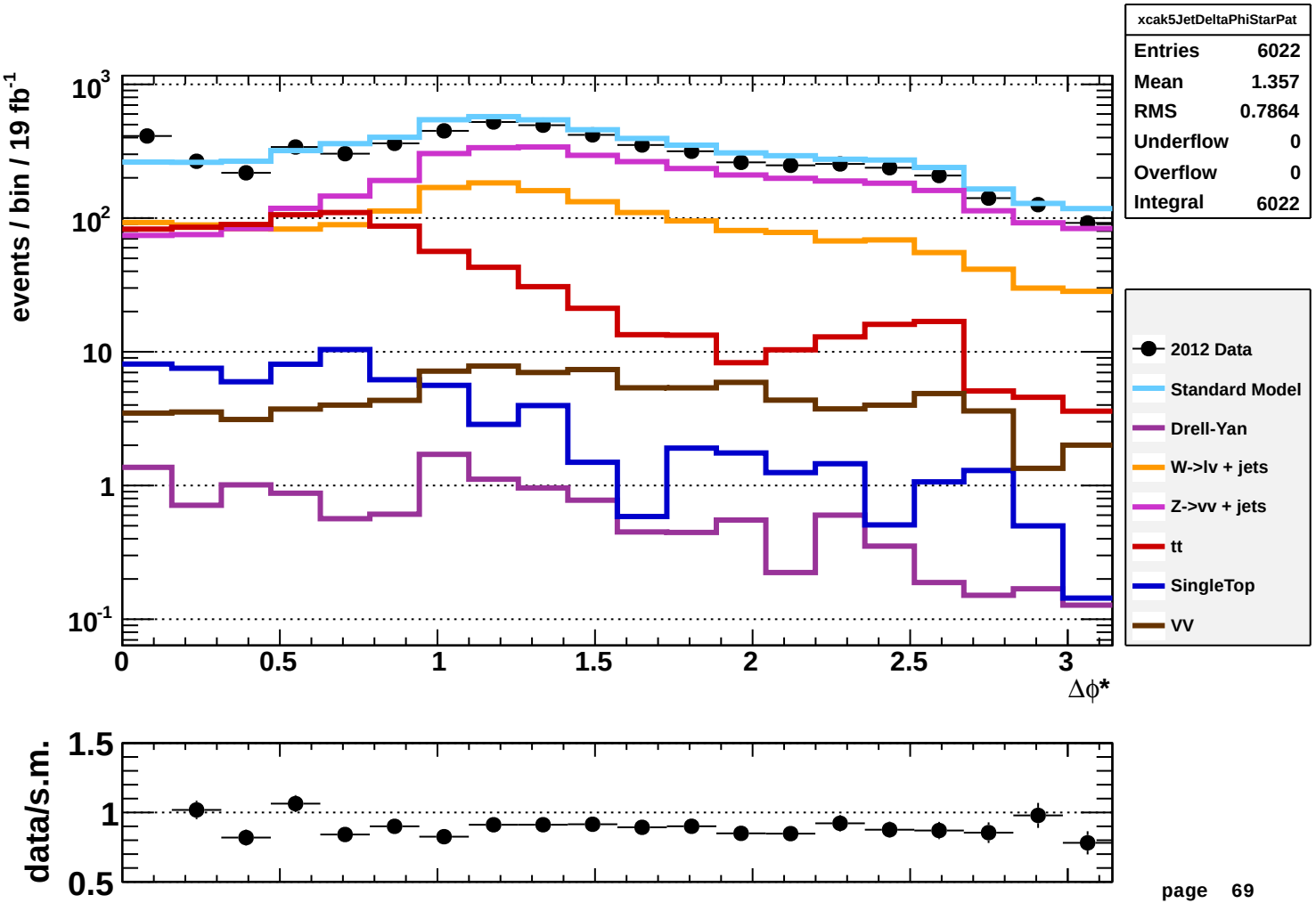
SingleTop

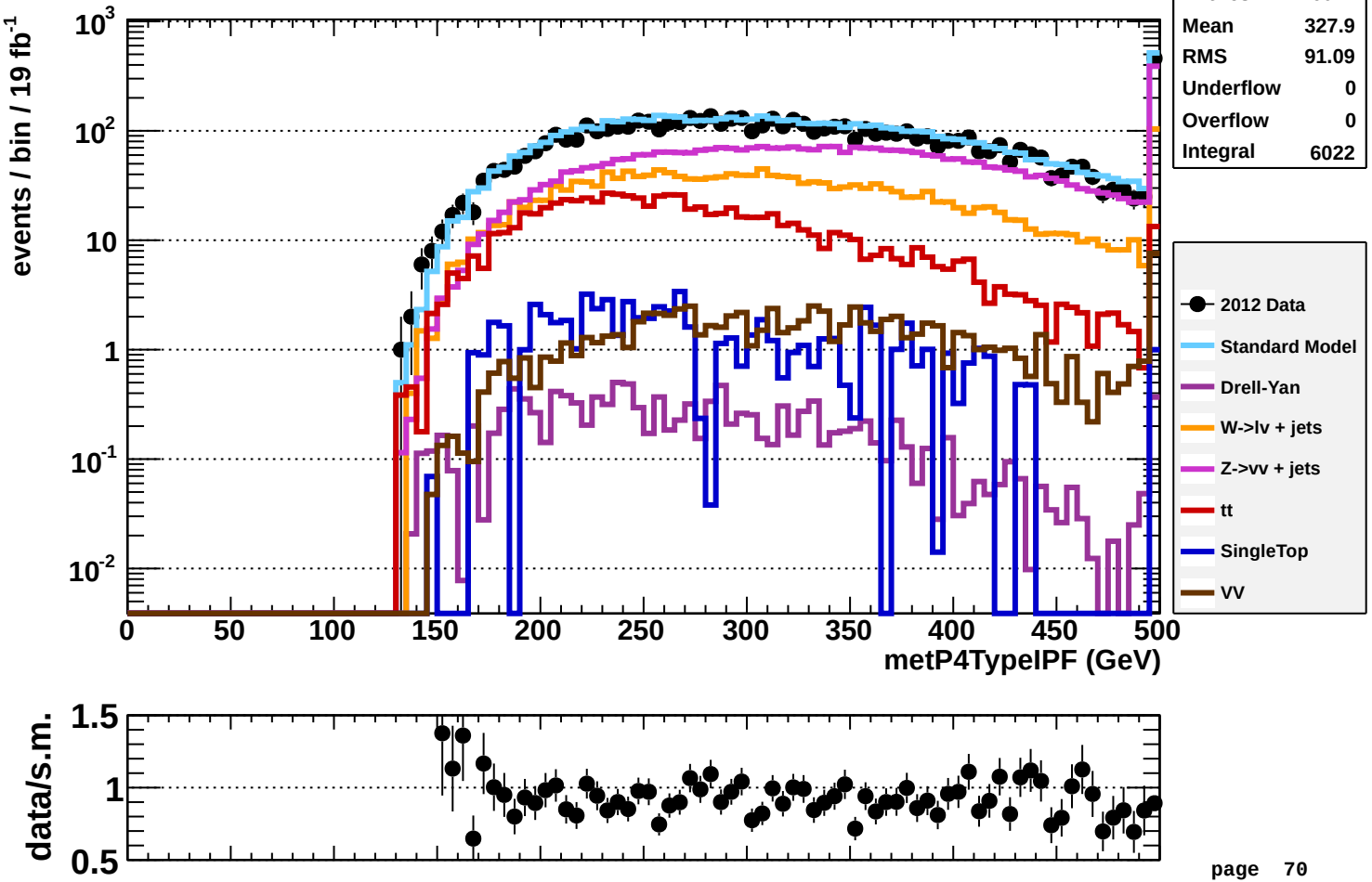


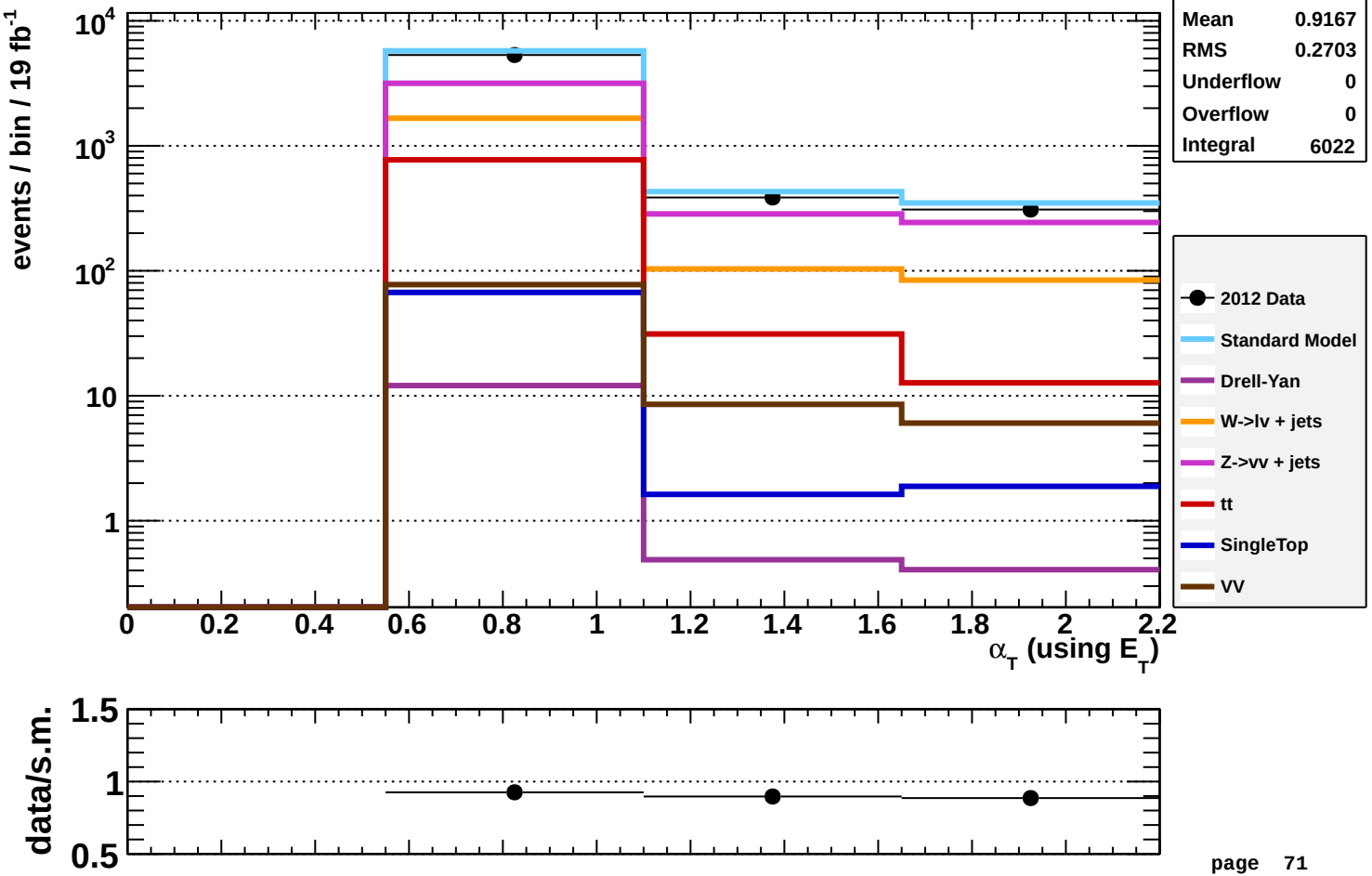
VV

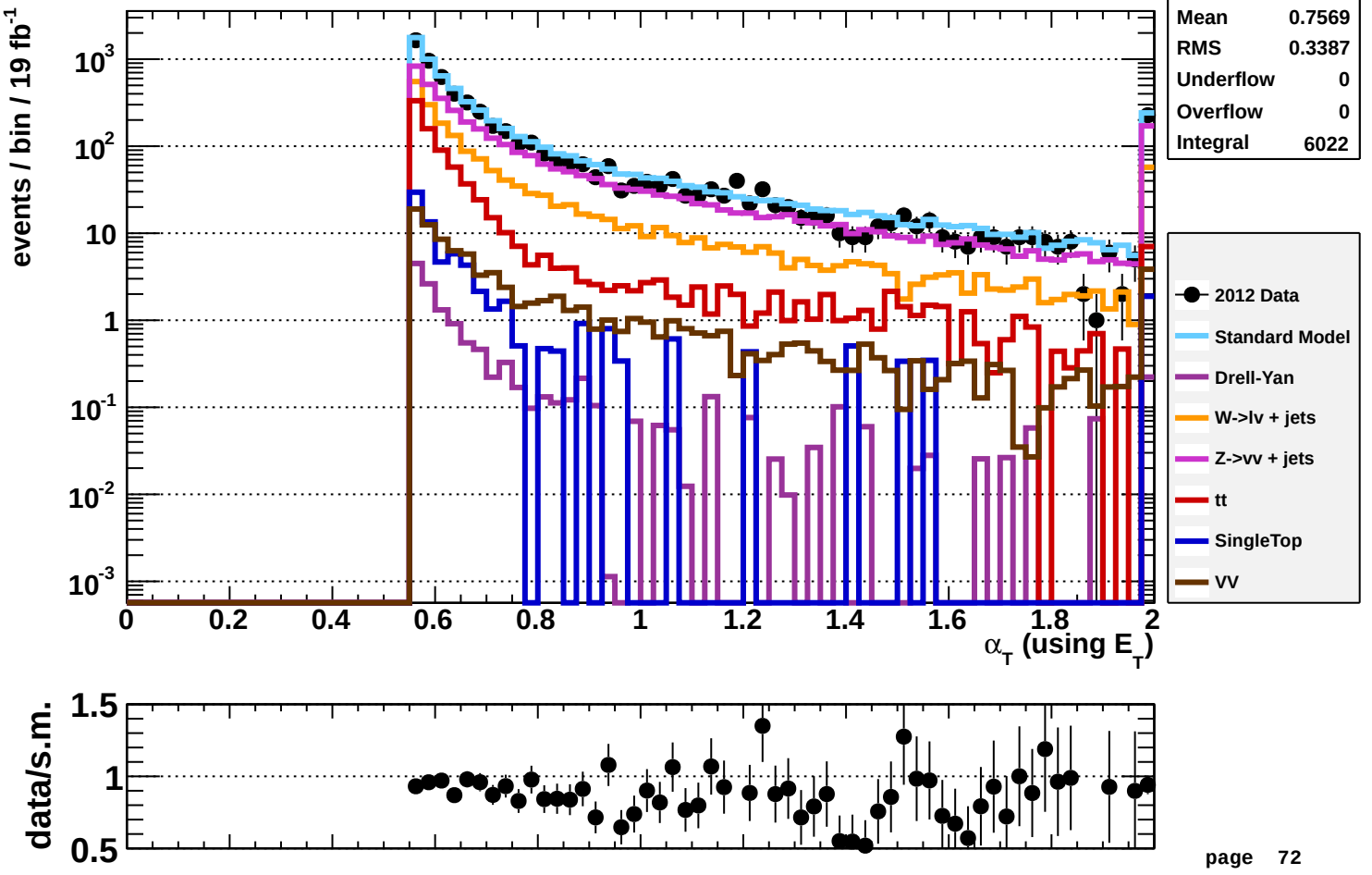


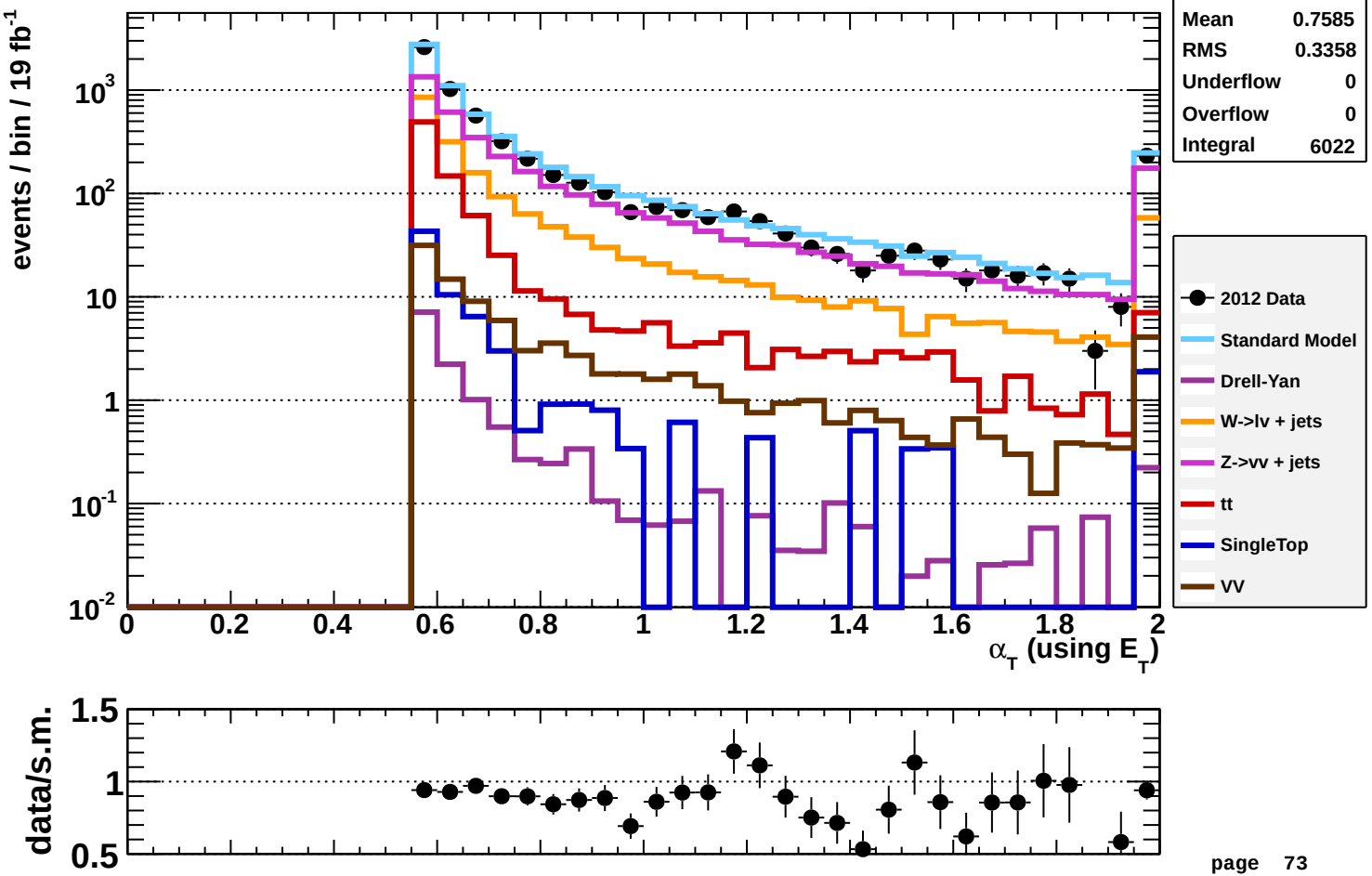

xcak5JetDeltaPhiStarlowPtPat
Entries 6022
Mean 1.189
RMS 0.7751
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δϕ*
data/s.m.

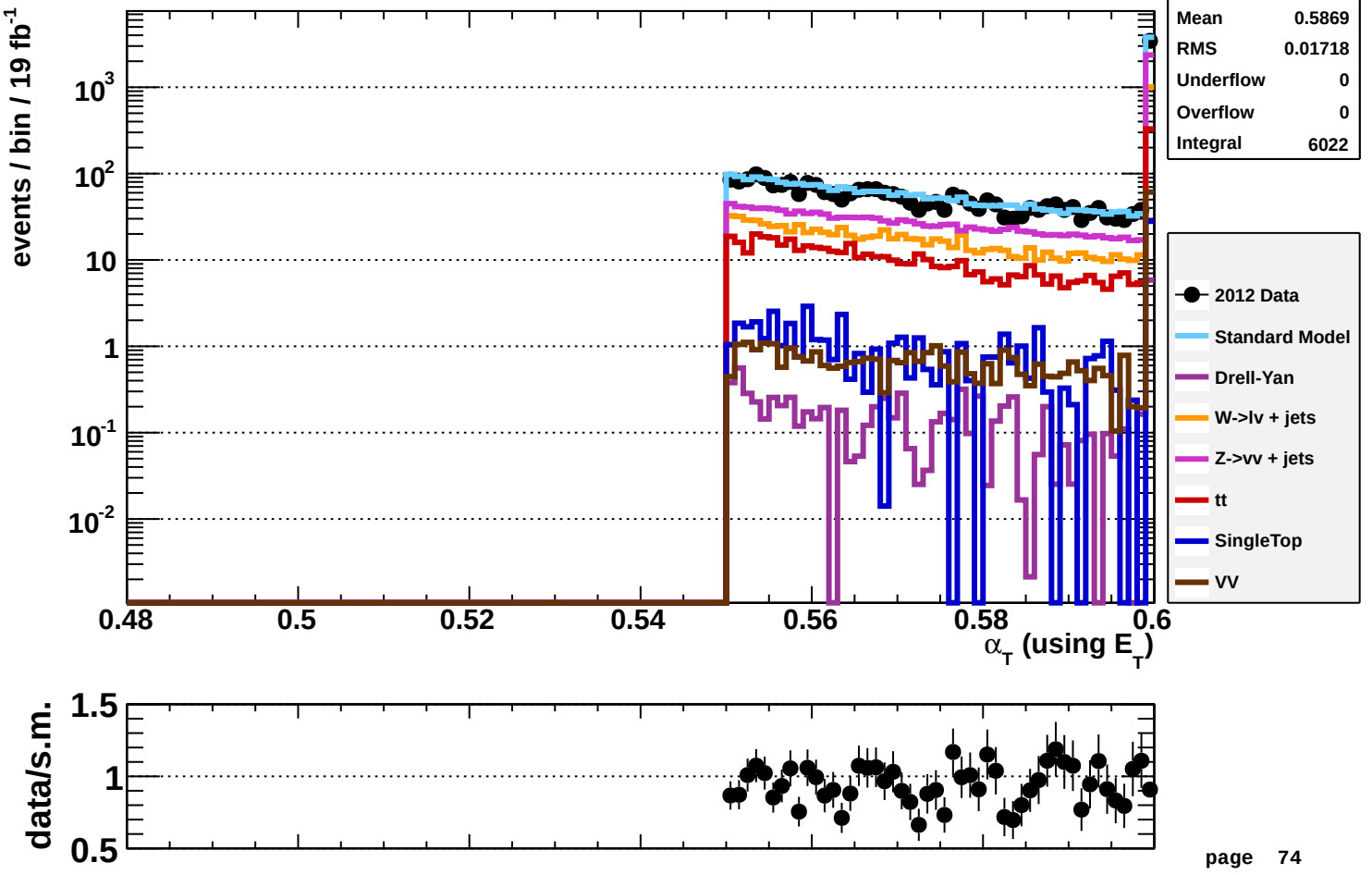

xcak5JetDeltaPhiStarPat
Entries 6022
Mean 1.357
RMS 0.7864
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ*
data/s.m.

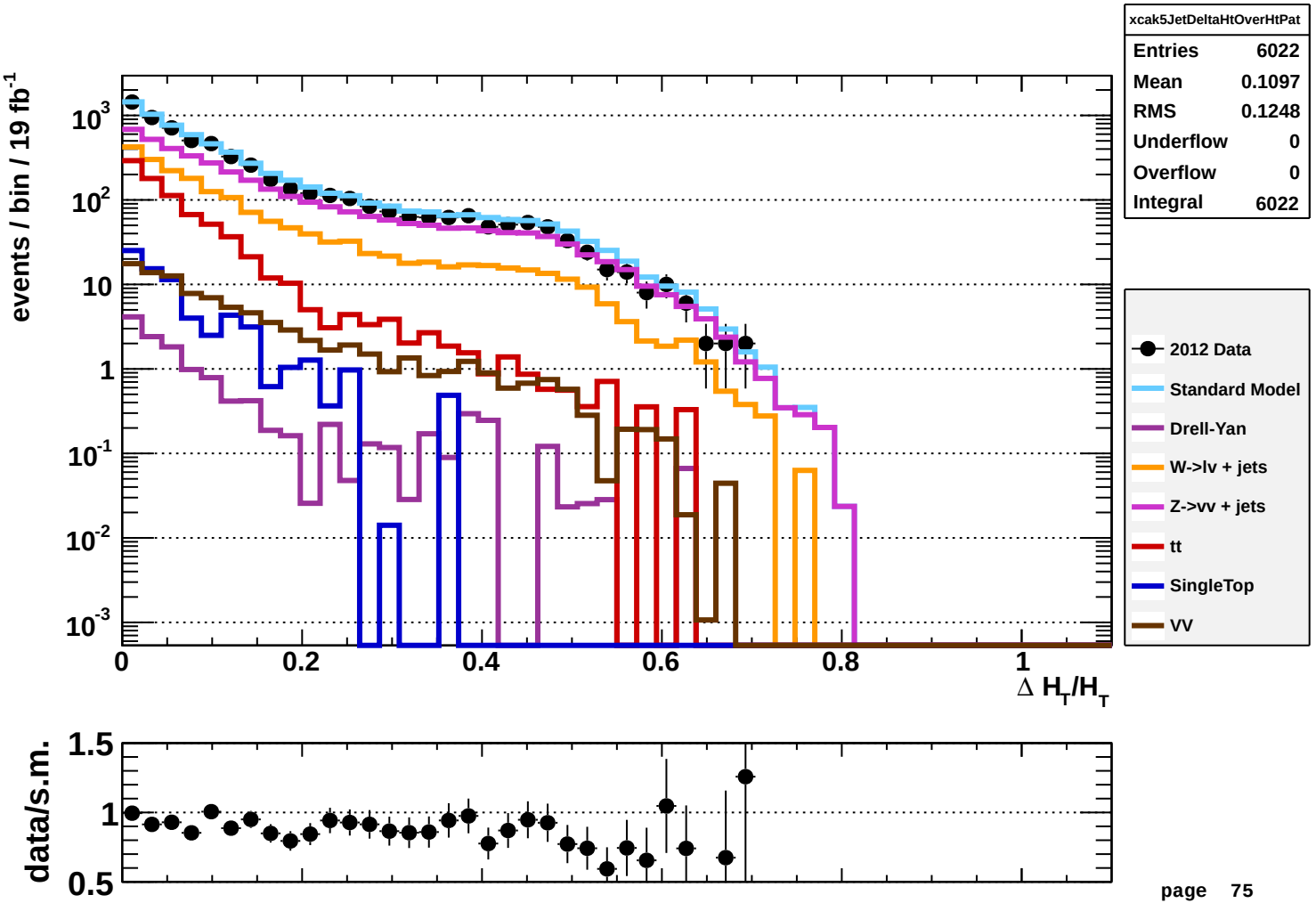

metP4TypeIPF
Entries 6022
Mean 327.9
RMS 91.09
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
metP4TypeIPF (GeV)
data/s.m.

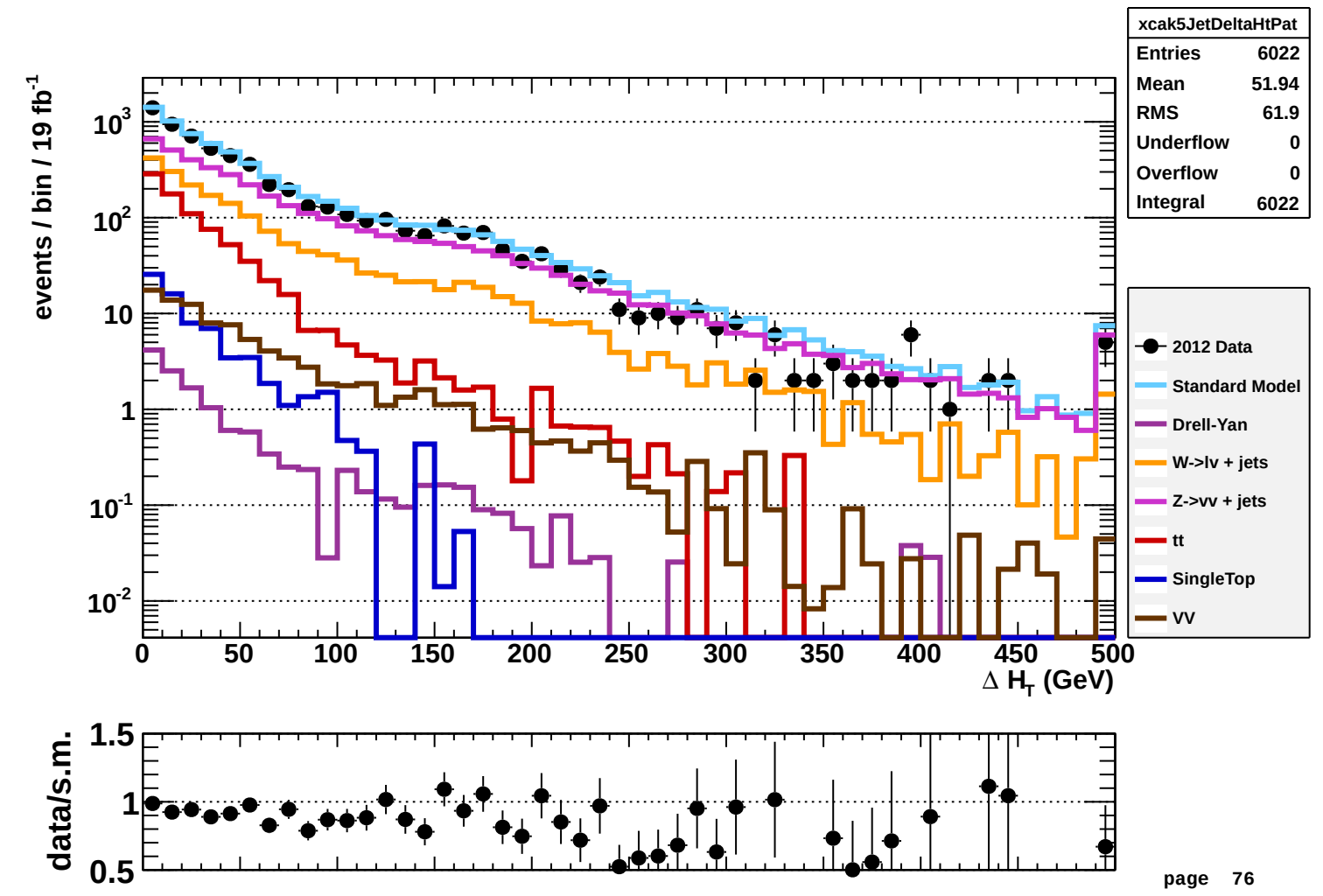

xcak5JetAlphaTFewBinsPat
Entries 6022
Mean 0.9167
RMS 0.2703
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
αT (using ET)
data/s.m.
1.5
1
0.5


xcak5JetAlphaTPat
Entries 6022
Mean 0.7569
RMS 0.3387
Underflow 0
Overflow 0
Integral 6022
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.

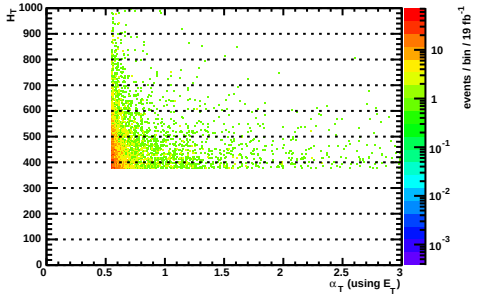

xcak5JetAlphaTRoughPat
Entries 6022
Mean 0.7585
RMS 0.3358
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
αT (using ET)
data/s.m.


xcak5JetAlphaTZoomPat
Entries 6022
Mean 0.5869
RMS 0.01718
Underflow 0
Overflow 0
Integral 6022
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

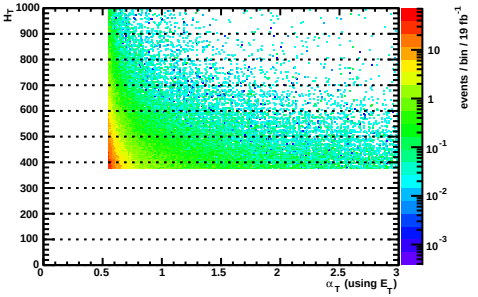

xcak5JetDeltaHtOverHtPat
Entries 6022
Mean 0.1097
RMS 0.1248
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δ HT/HT
data/s.m.


xcak5JetDeltaHtPat
Entries 6022
Mean 51.94
RMS 61.9
Underflow 0
Overflow 0
Integral 6022
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.

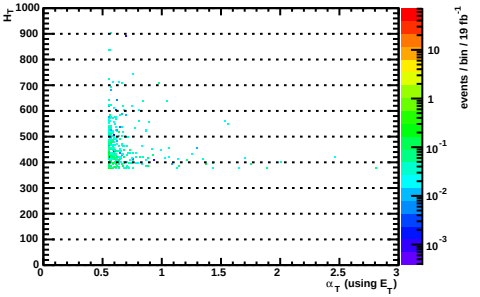
2012 Data



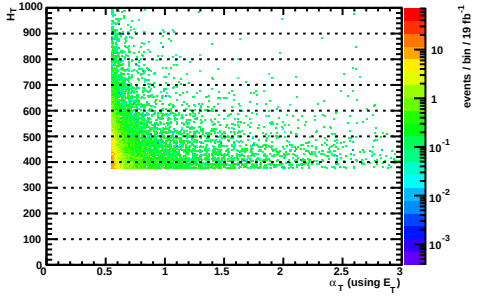
Standard Model



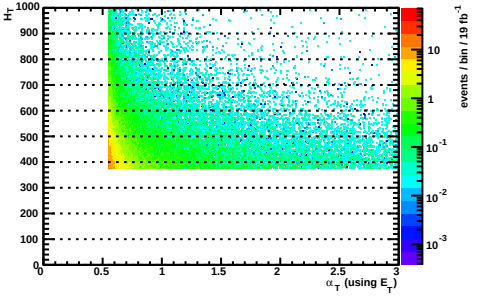
Drell-Yan



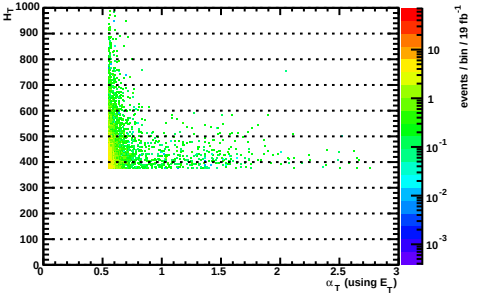
W->lv + jets



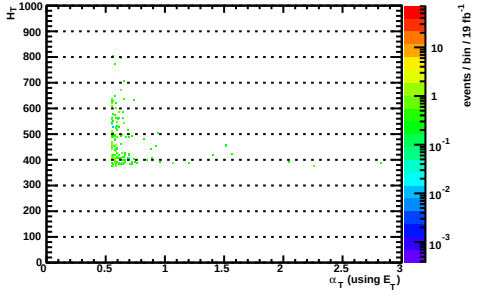
Z->vv + jets



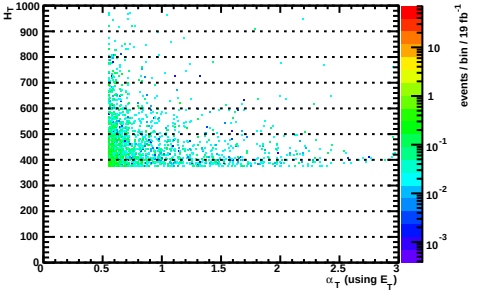
tt



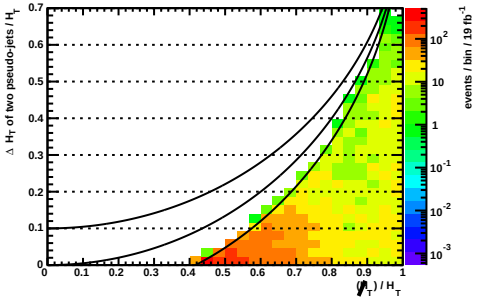
SingleTop



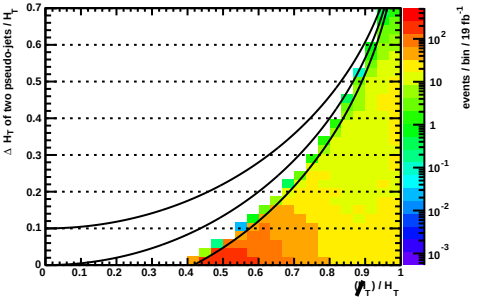
VV



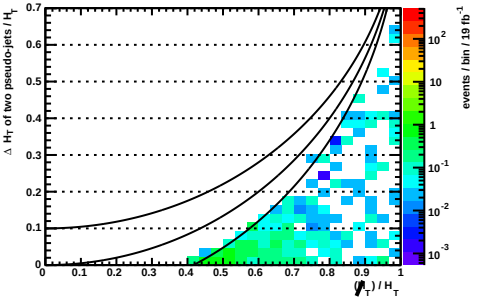
2012 Data



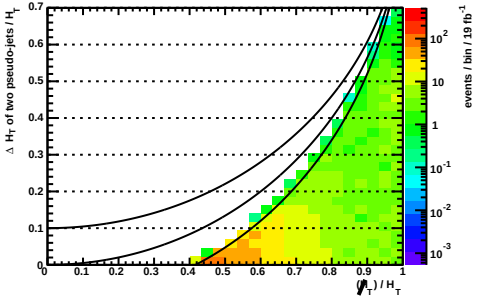
Standard Model



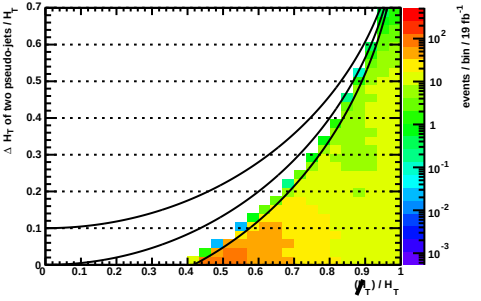
Drell-Yan



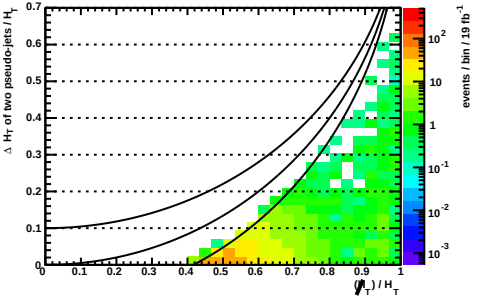
W->lv + jets



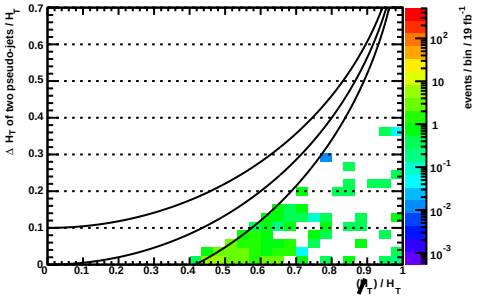
Z->vv + jets



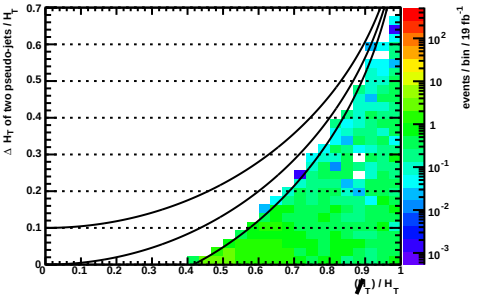
tt



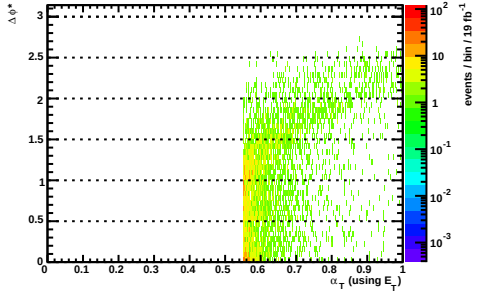
SingleTop



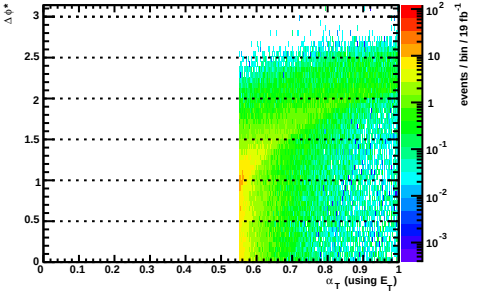
VV



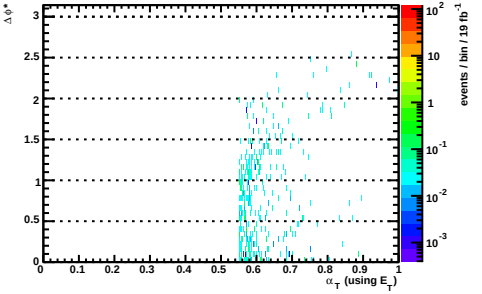
2012 Data



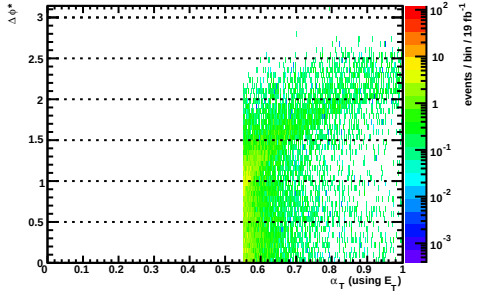
Standard Model



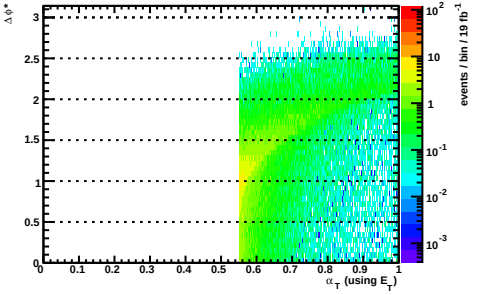
Drell-Yan



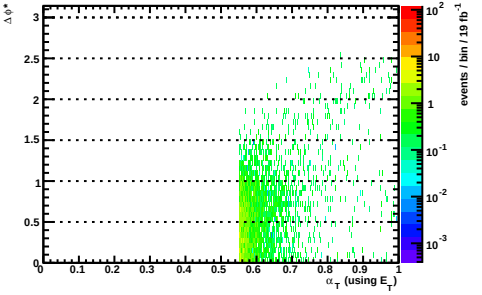
W->lv + jets



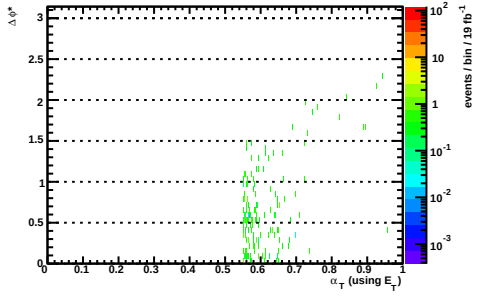
Z->vv + jets



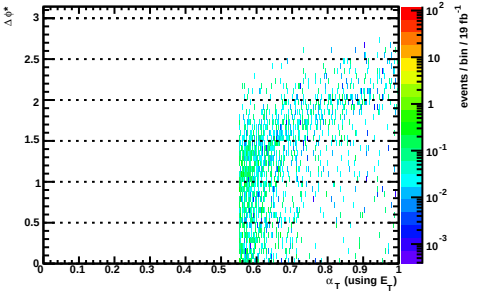
tt

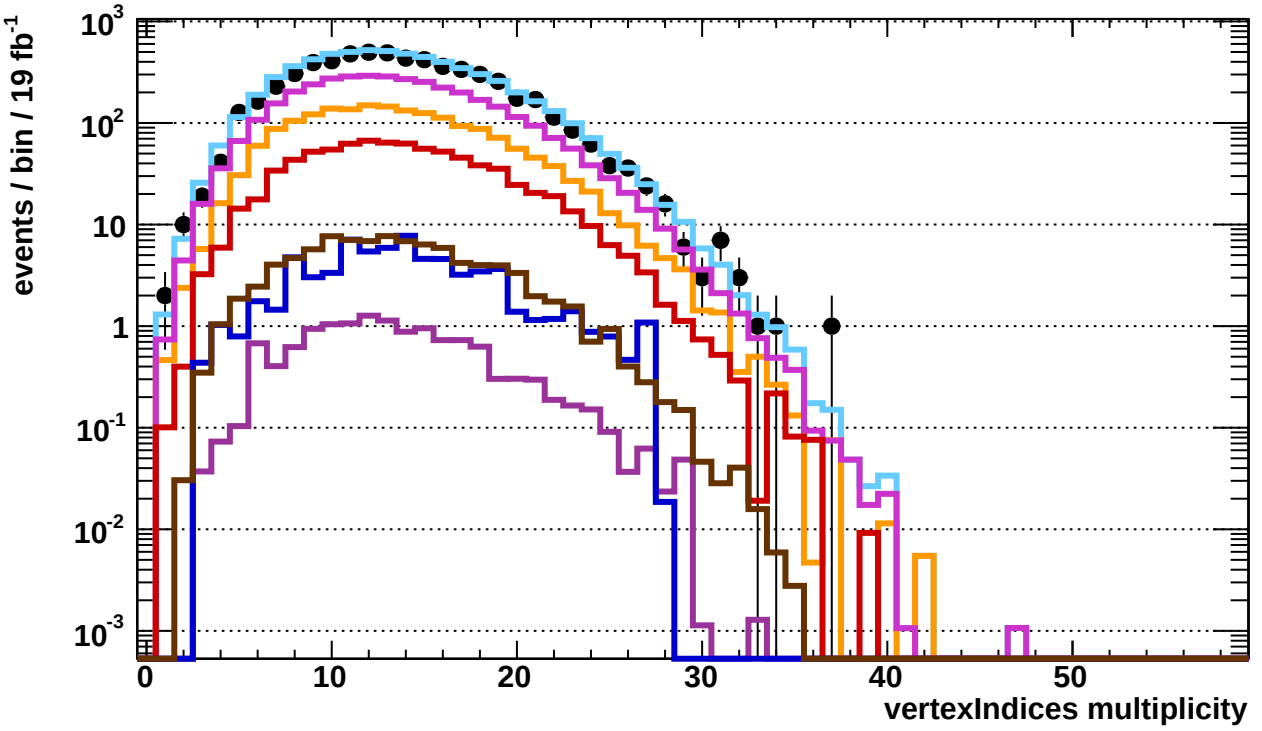


SingleTop



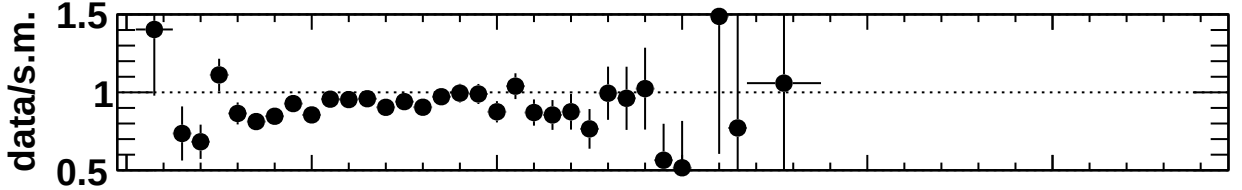
VV

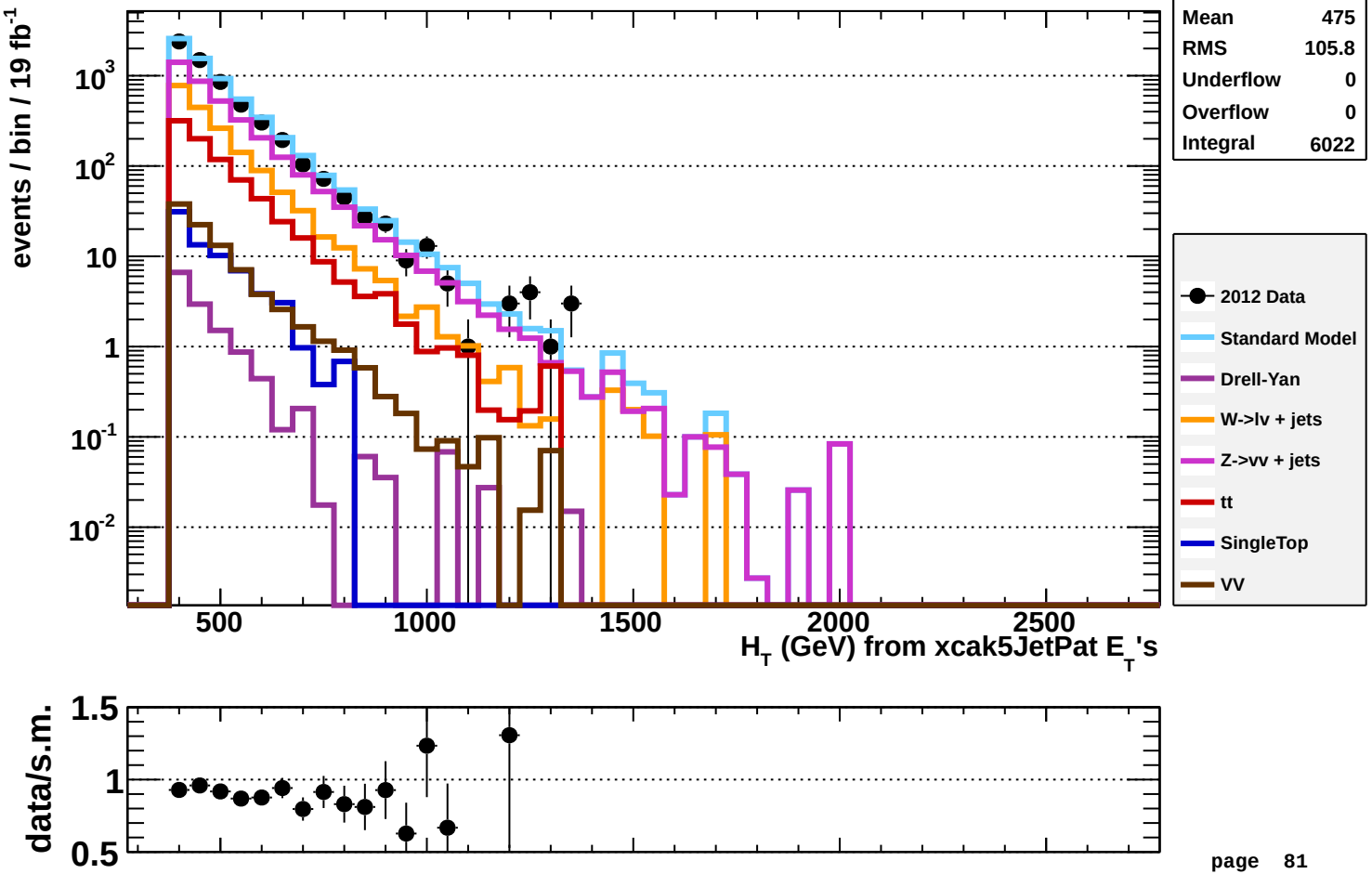


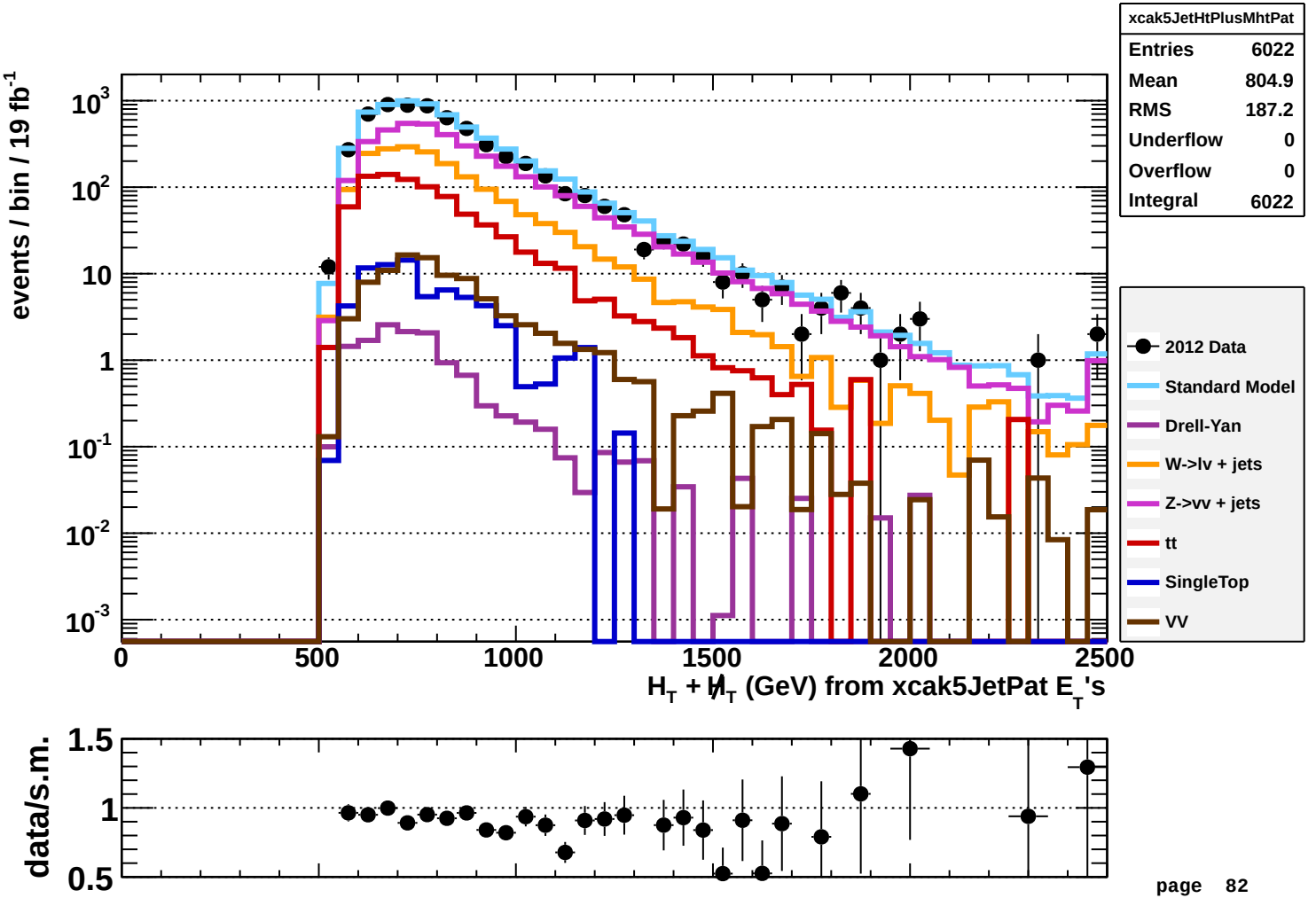


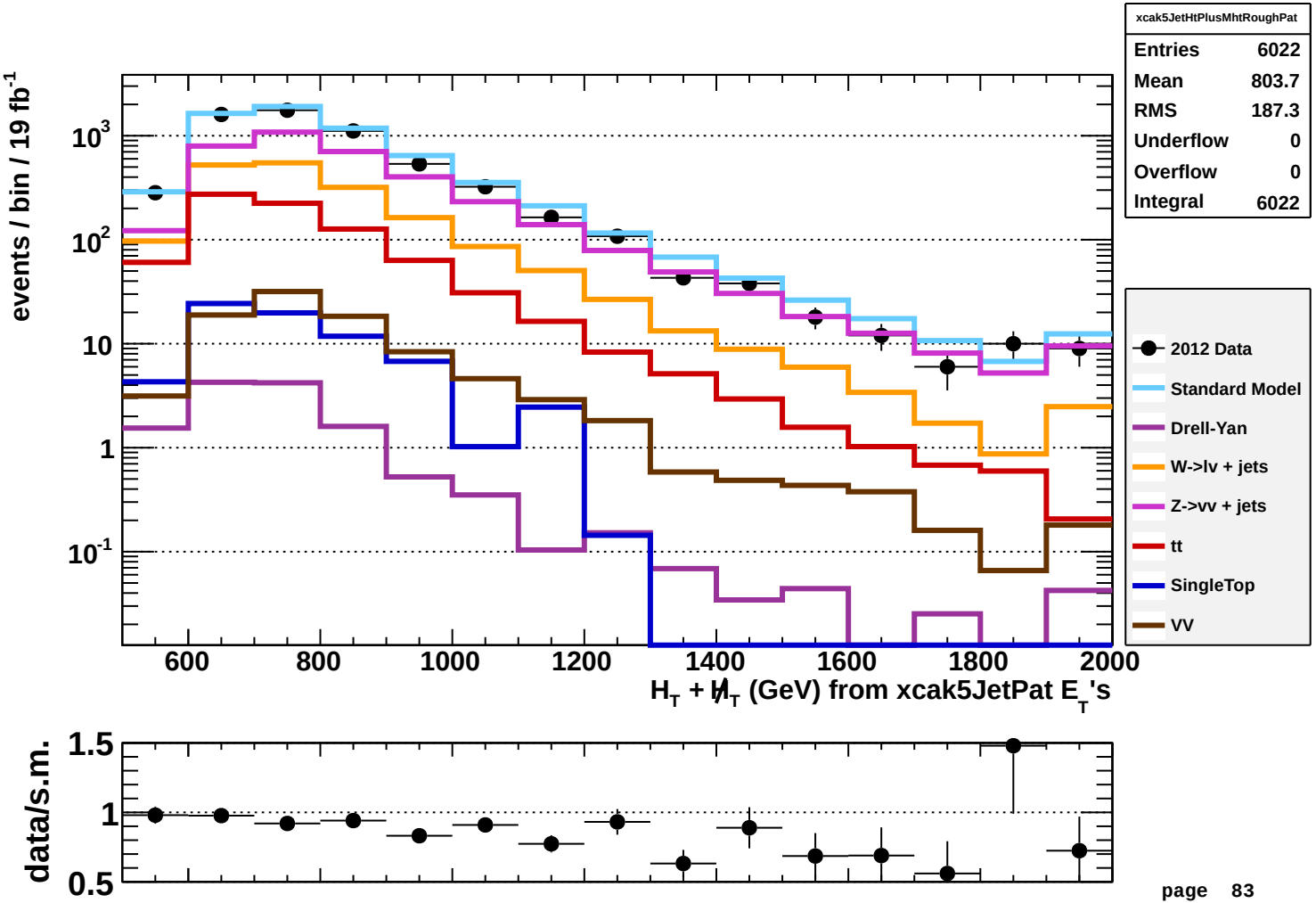
vertexIndicesMultiplicity	
Entries	6022
Mean	13.62
RMS	4.96
Underflow	0
Overflow	0
Integral	6022

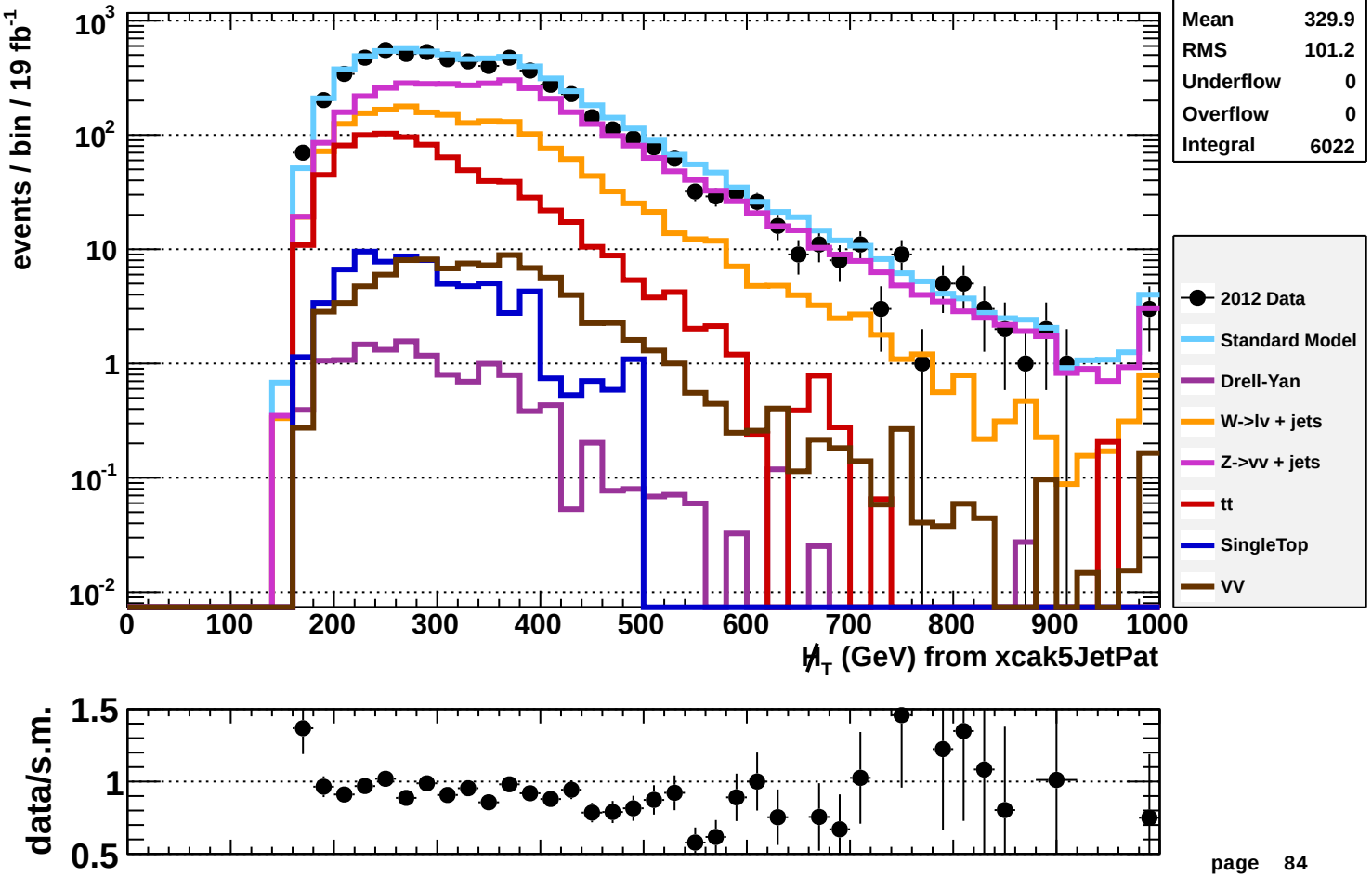
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV

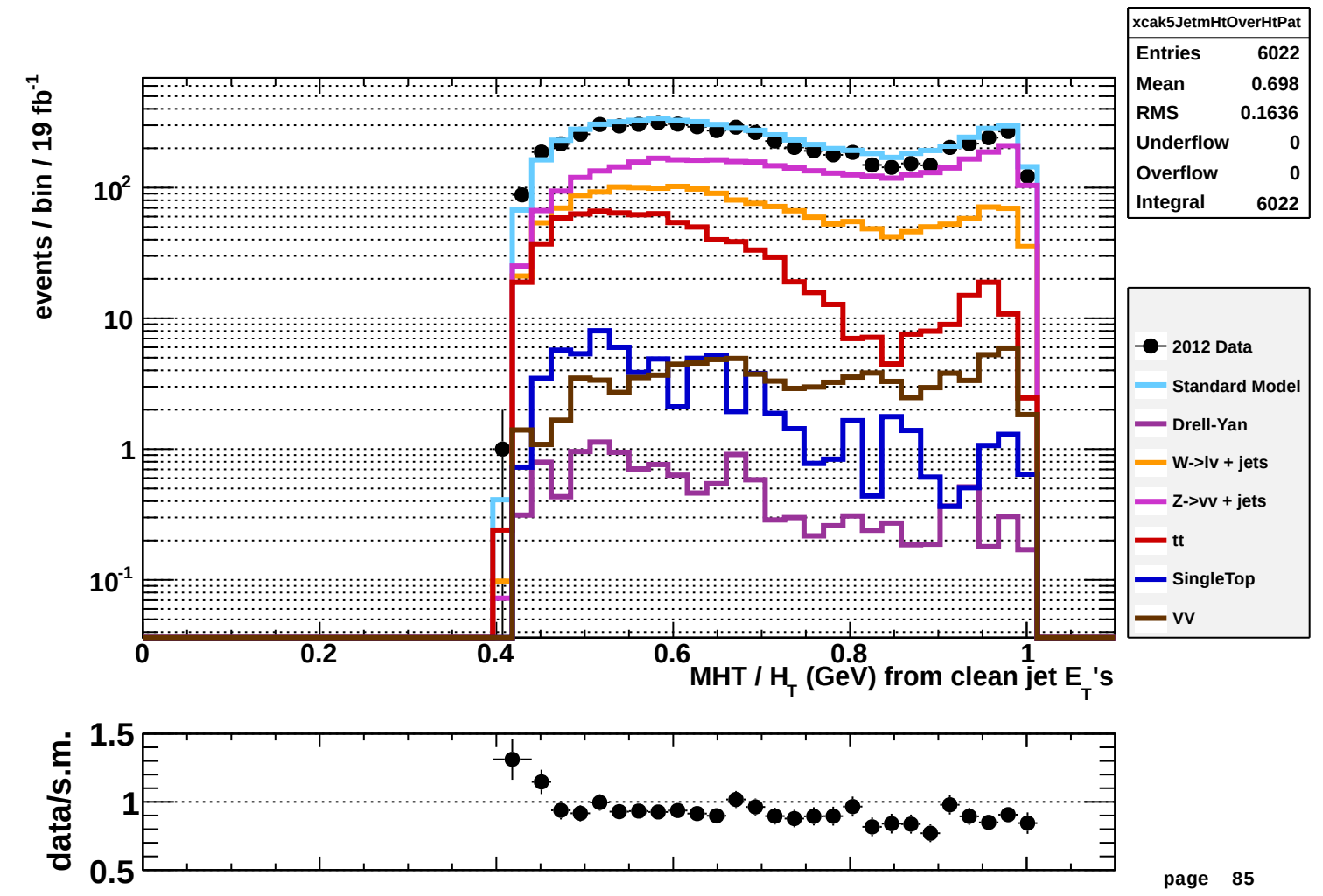


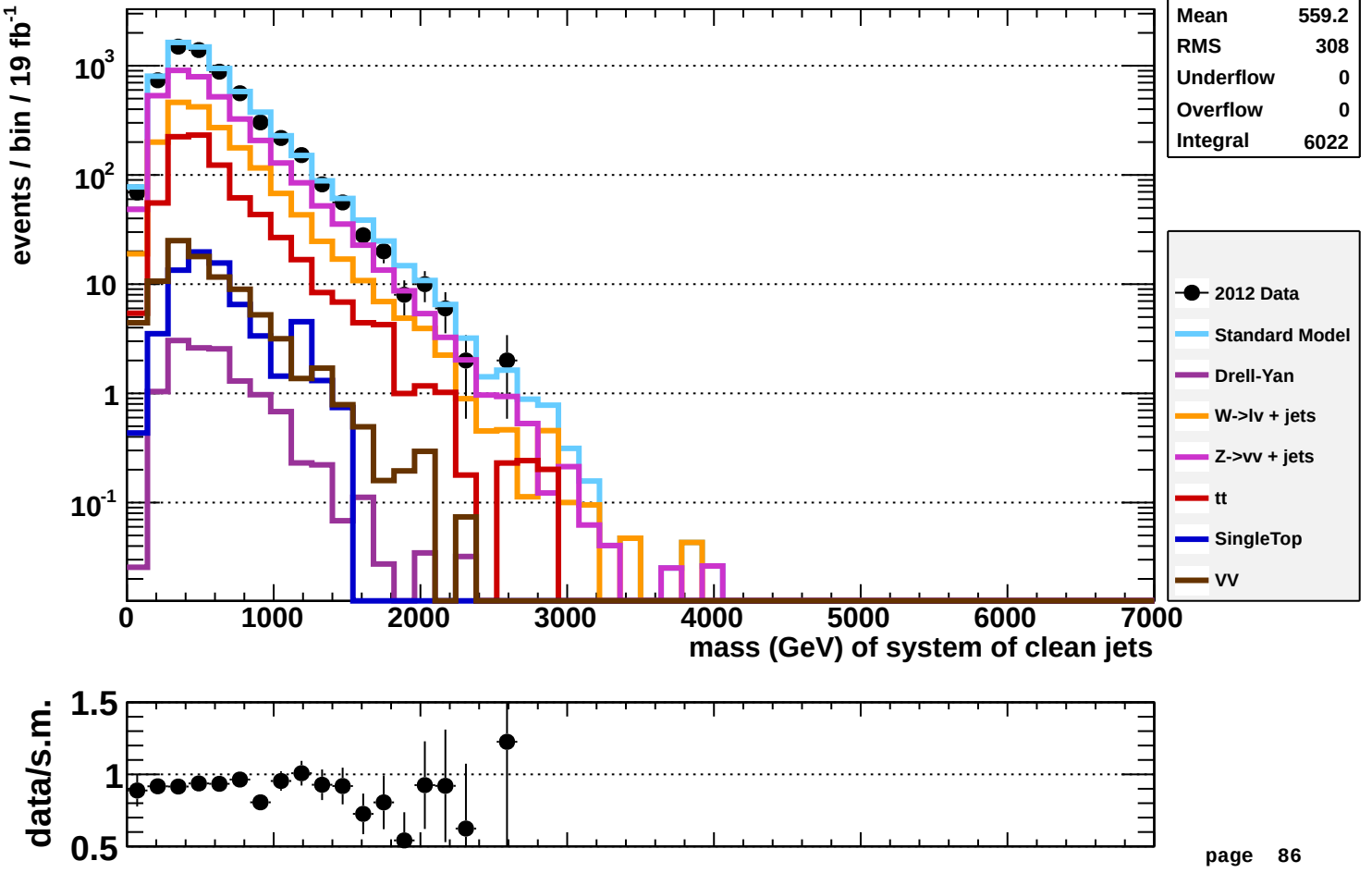

xcak5JetHtPat
Entries 6022
Mean 475
RMS 105.8
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetHtPlusMhtPat
Entries 6022
Mean 804.9
RMS 187.2
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + /H_T (GeV) from xcak5JetPat E_T's
data/s.m.

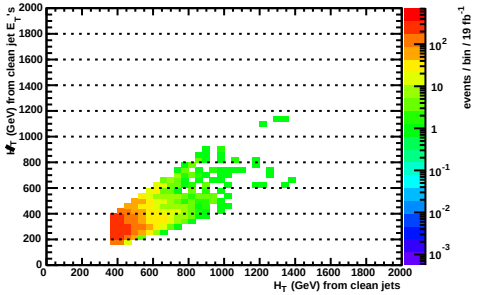

xcak5JetHtPlusMhtRoughPat
Entries 6022
Mean 803.7
RMS 187.3
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T + MH_T (GeV) from xcak5JetPat E_T's
data/s.m.


xcak5JetMhtPat
Entries 6022
Mean 329.9
RMS 101.2
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H/T (GeV) from xcak5JetPat
data/s.m.

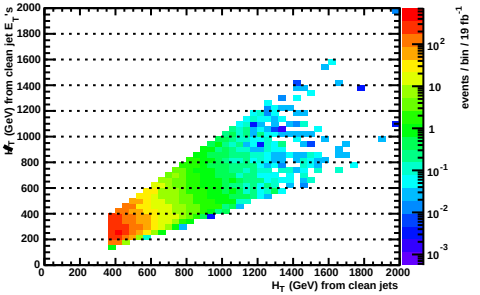

xcak5JetmHtOverHtPat
Entries 6022
Mean 0.698
RMS 0.1636
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT / HT (GeV) from clean jet ET's
data/s.m.


xcak5JetmPat
Entries 6022
Mean 559.2
RMS 308
Underflow 0
Overflow 0
Integral 6022
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.

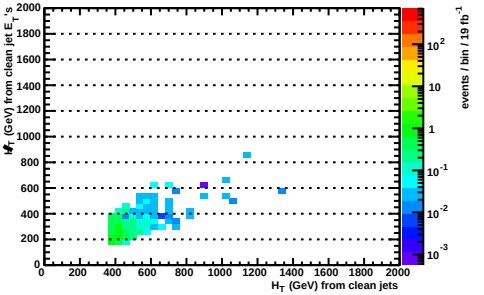
2012 Data



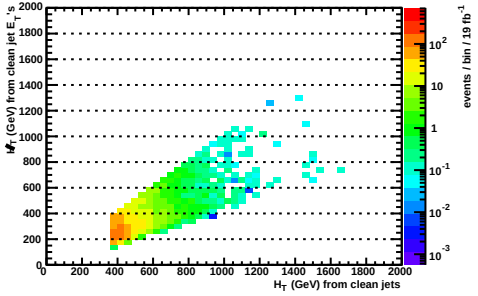
Standard Model



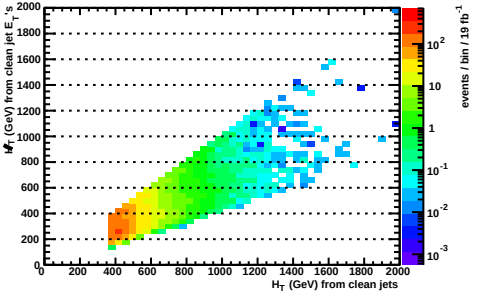
Drell-Yan



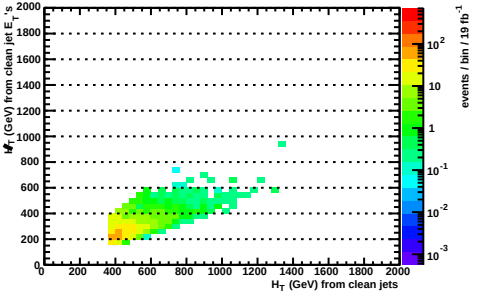
W->lv + jets



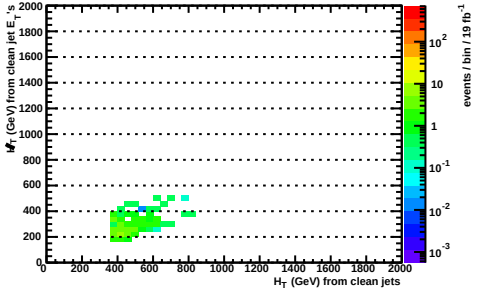
Z->vv + jets



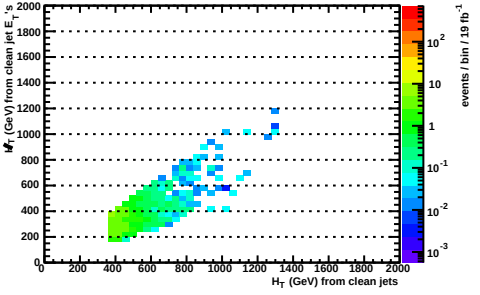
tt

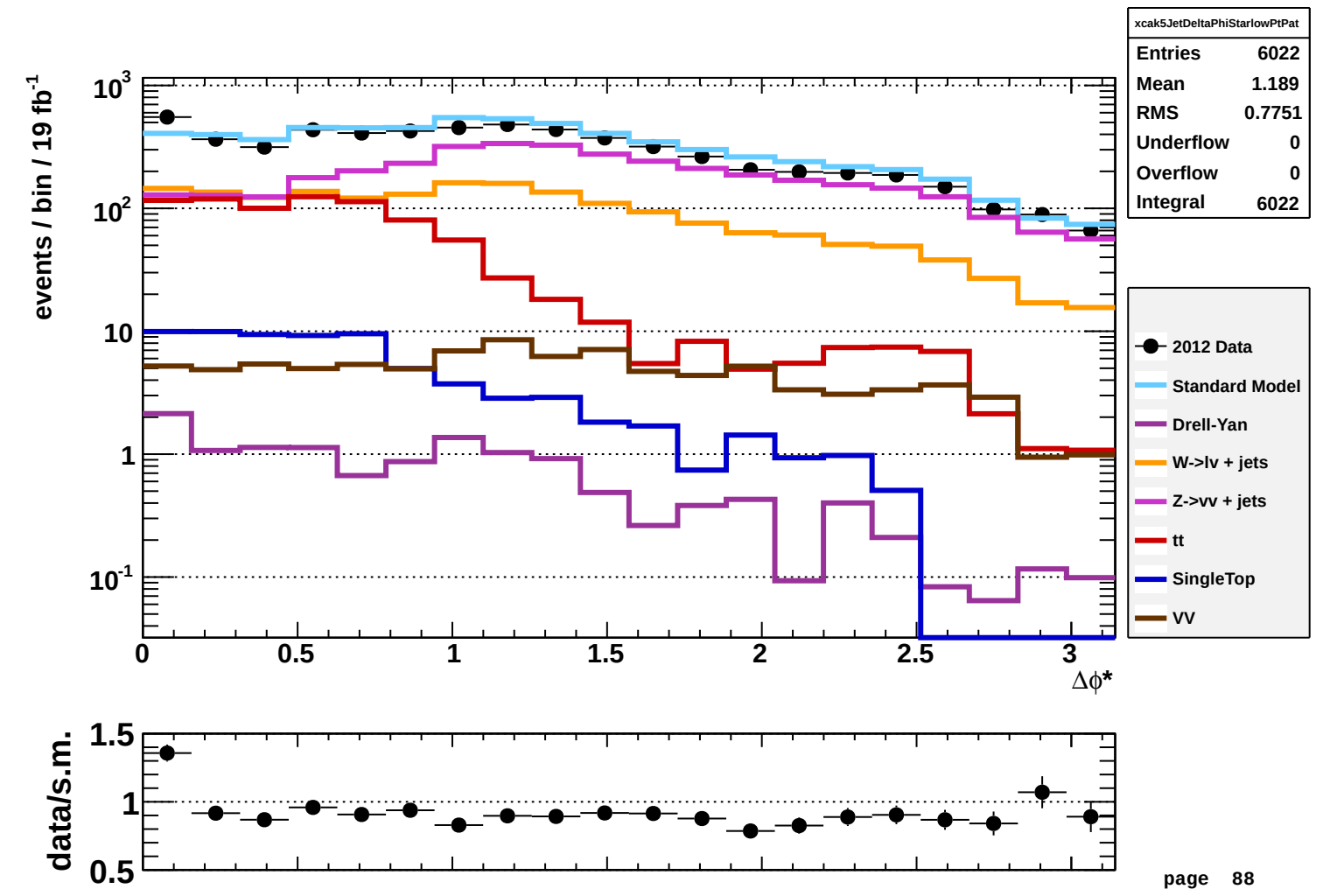


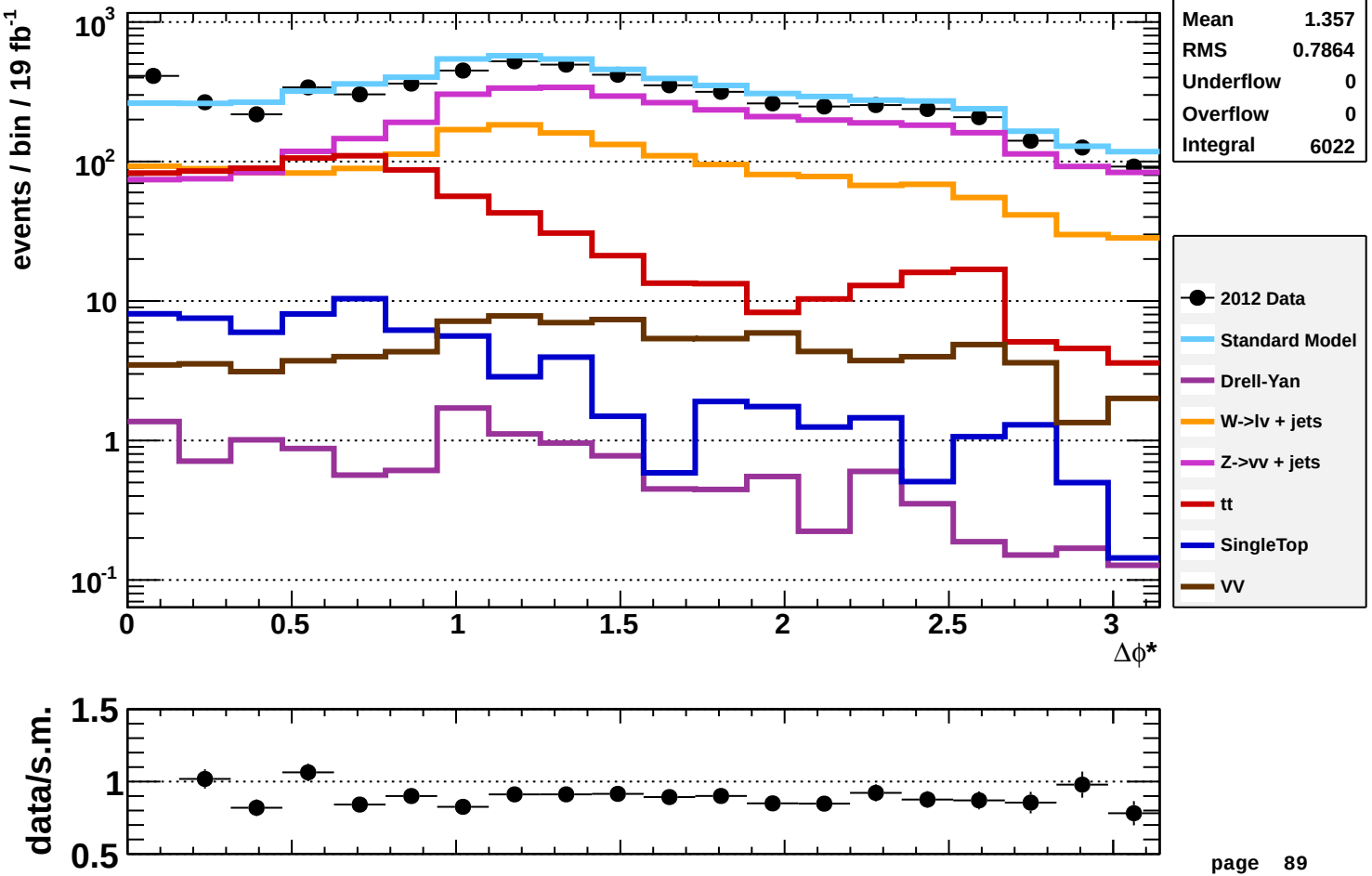
SingleTop

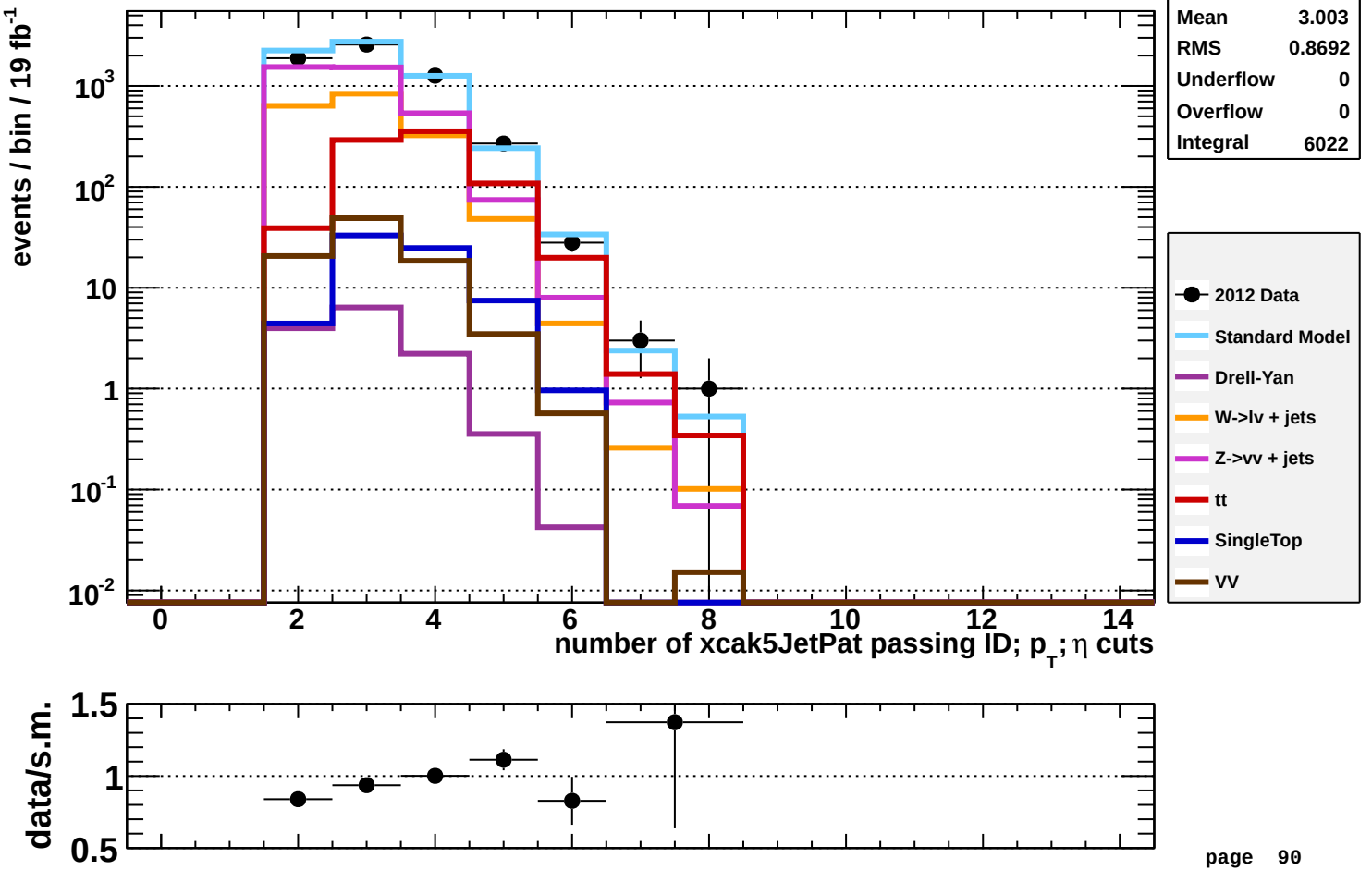


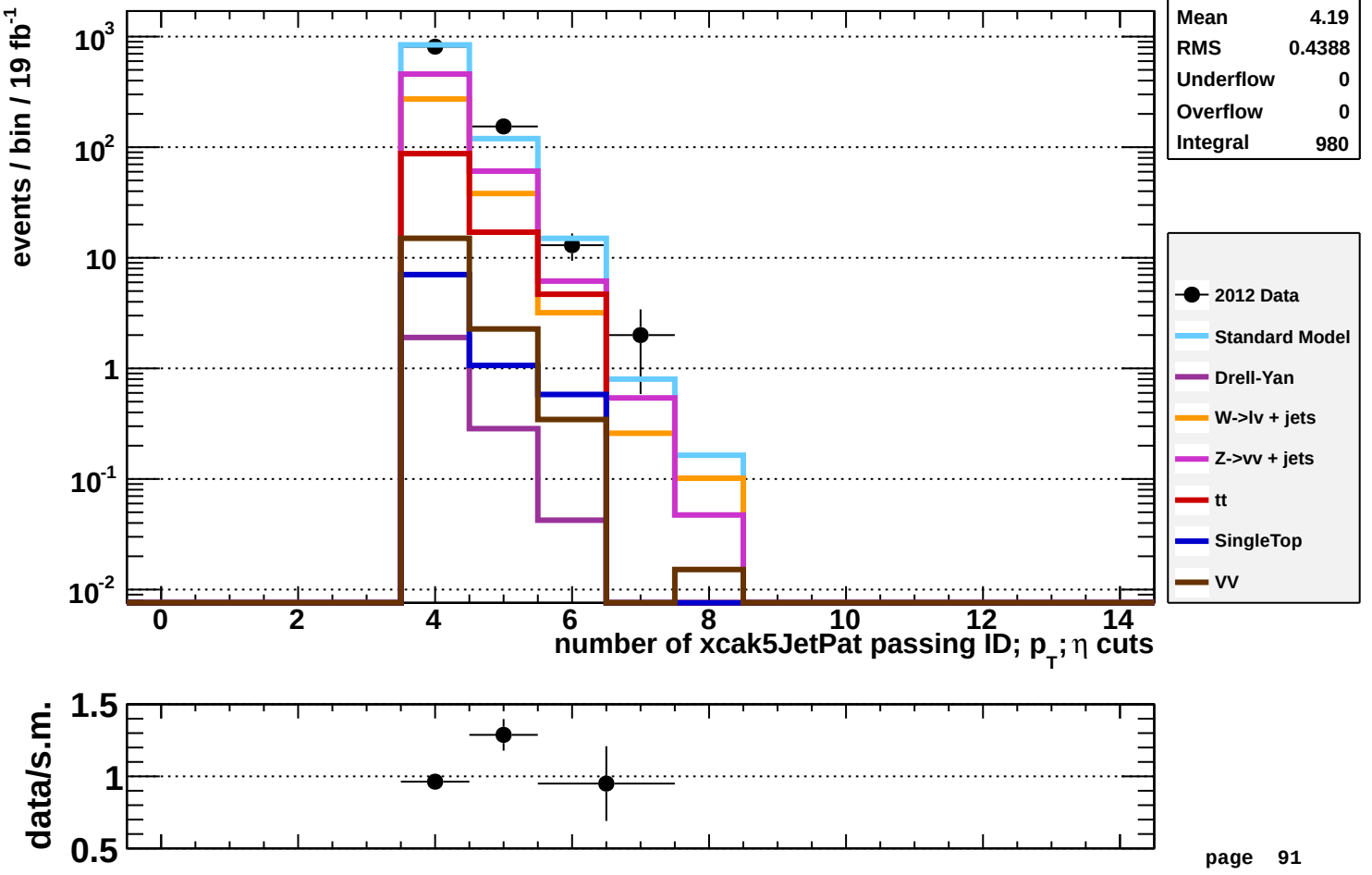
VV

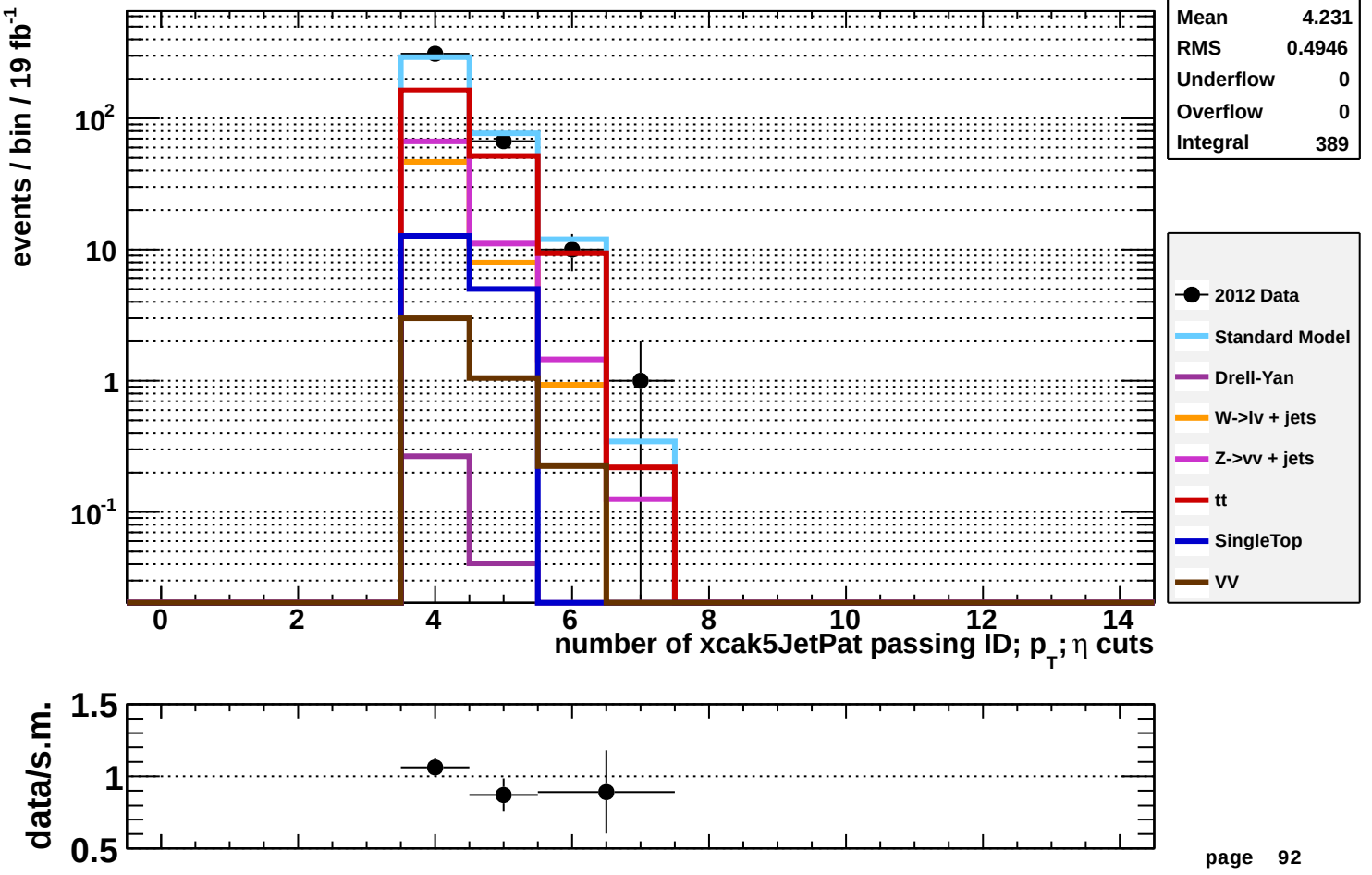


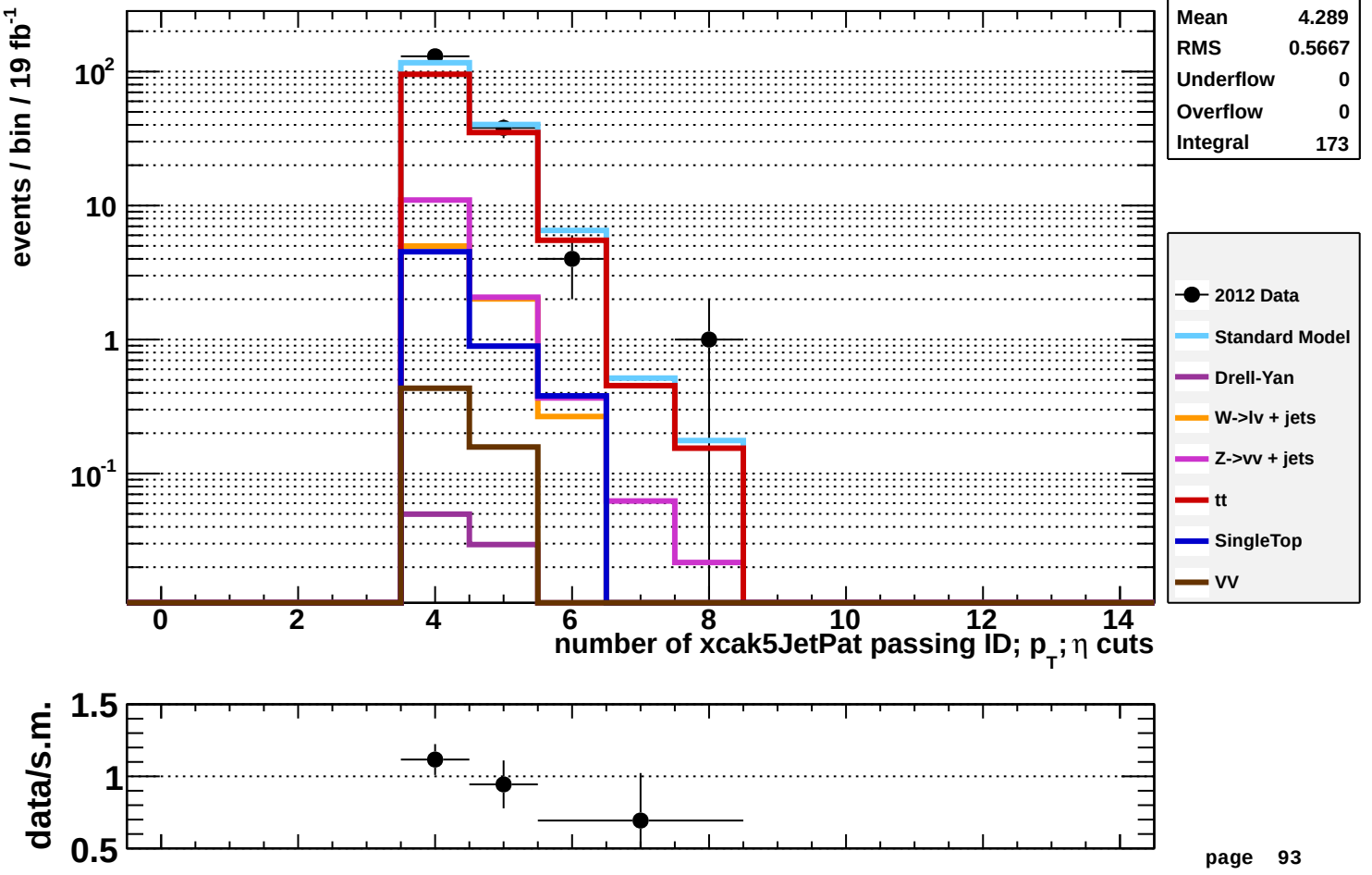

xcak5JetDeltaPhiStarlowPtPat
Entries 6022
Mean 1.189
RMS 0.7751
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ*
data/s.m.

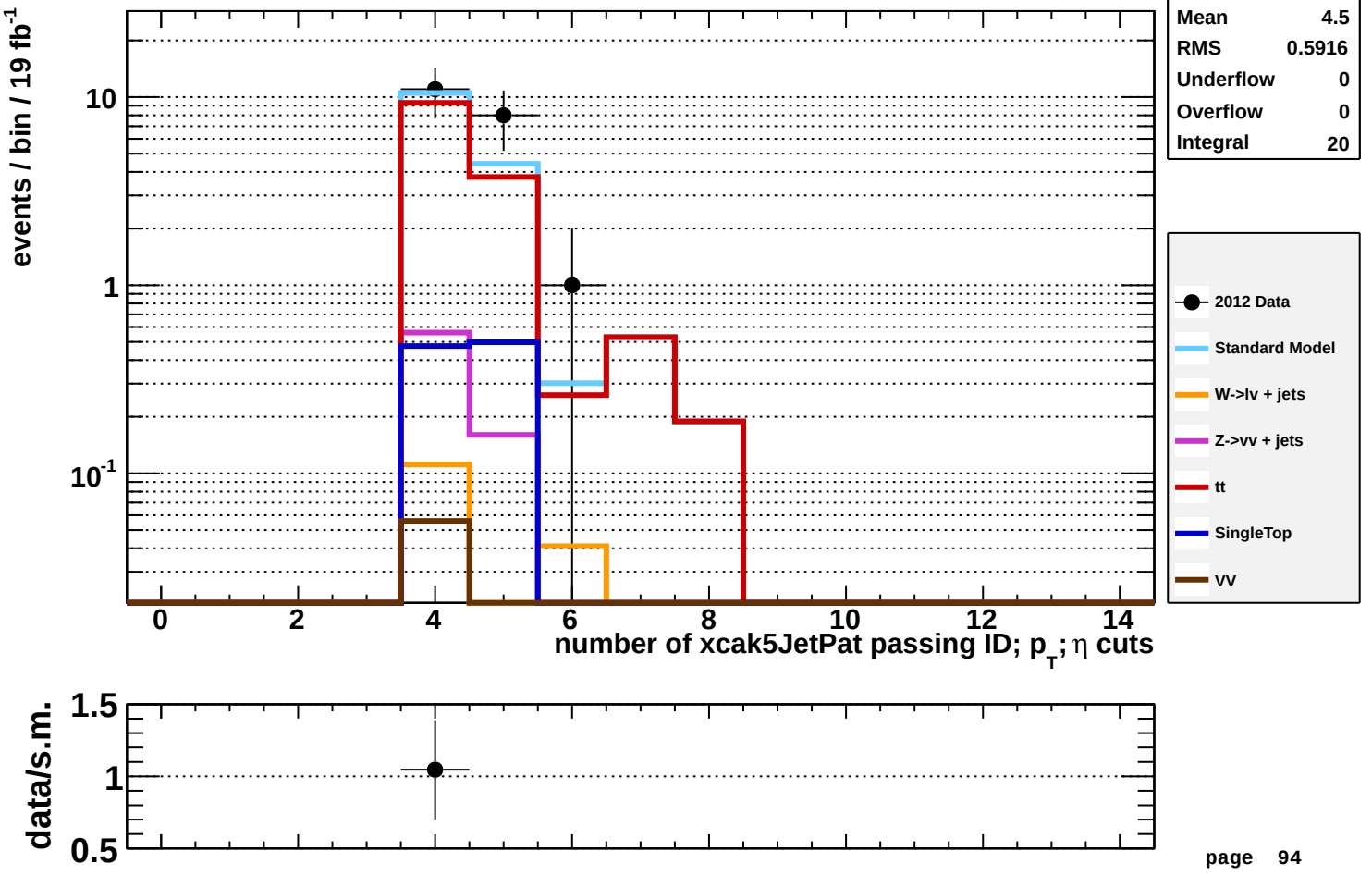

xcak5JetDeltaPhiStarPat
Entries 6022
Mean 1.357
RMS 0.7864
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
Δφ*
data/s.m.

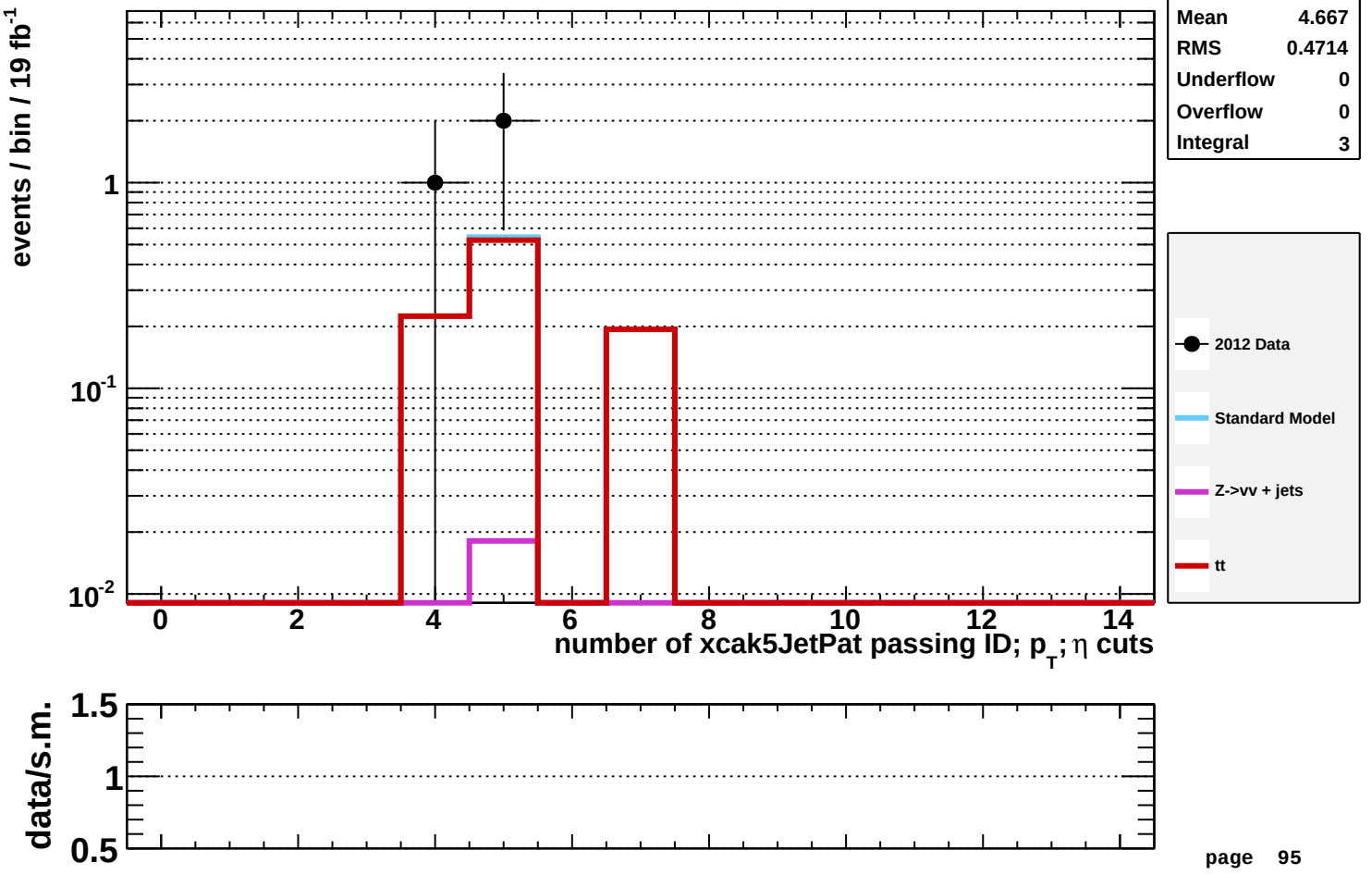

xcak5JetIndicesPat
Entries 6022
Mean 3.003
RMS 0.8692
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

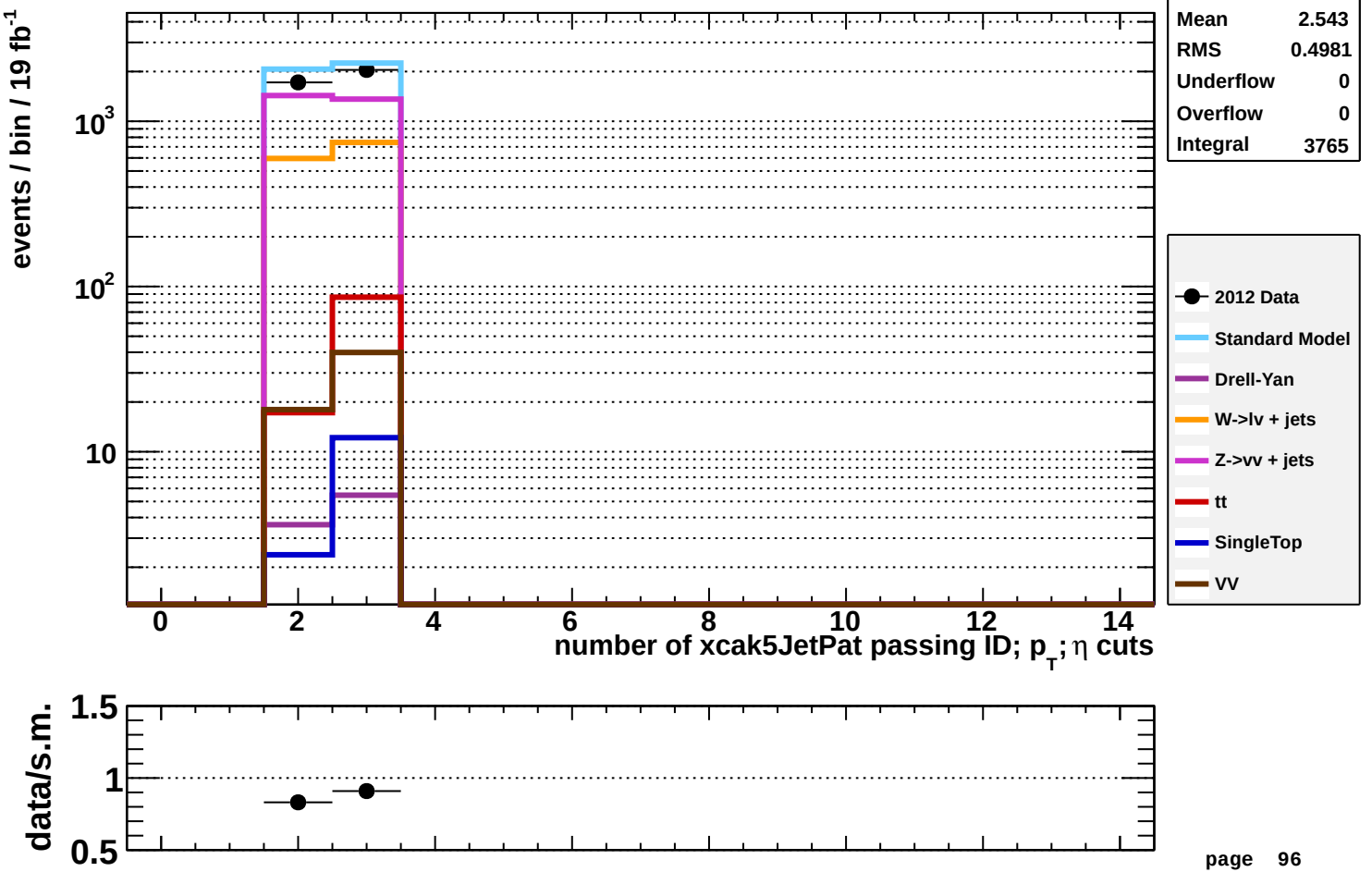

xcak5JetIndicesPat_ge4j_eq0b
Entries 980
Mean 4.19
RMS 0.4388
Underflow 0
Overflow 0
Integral 980
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

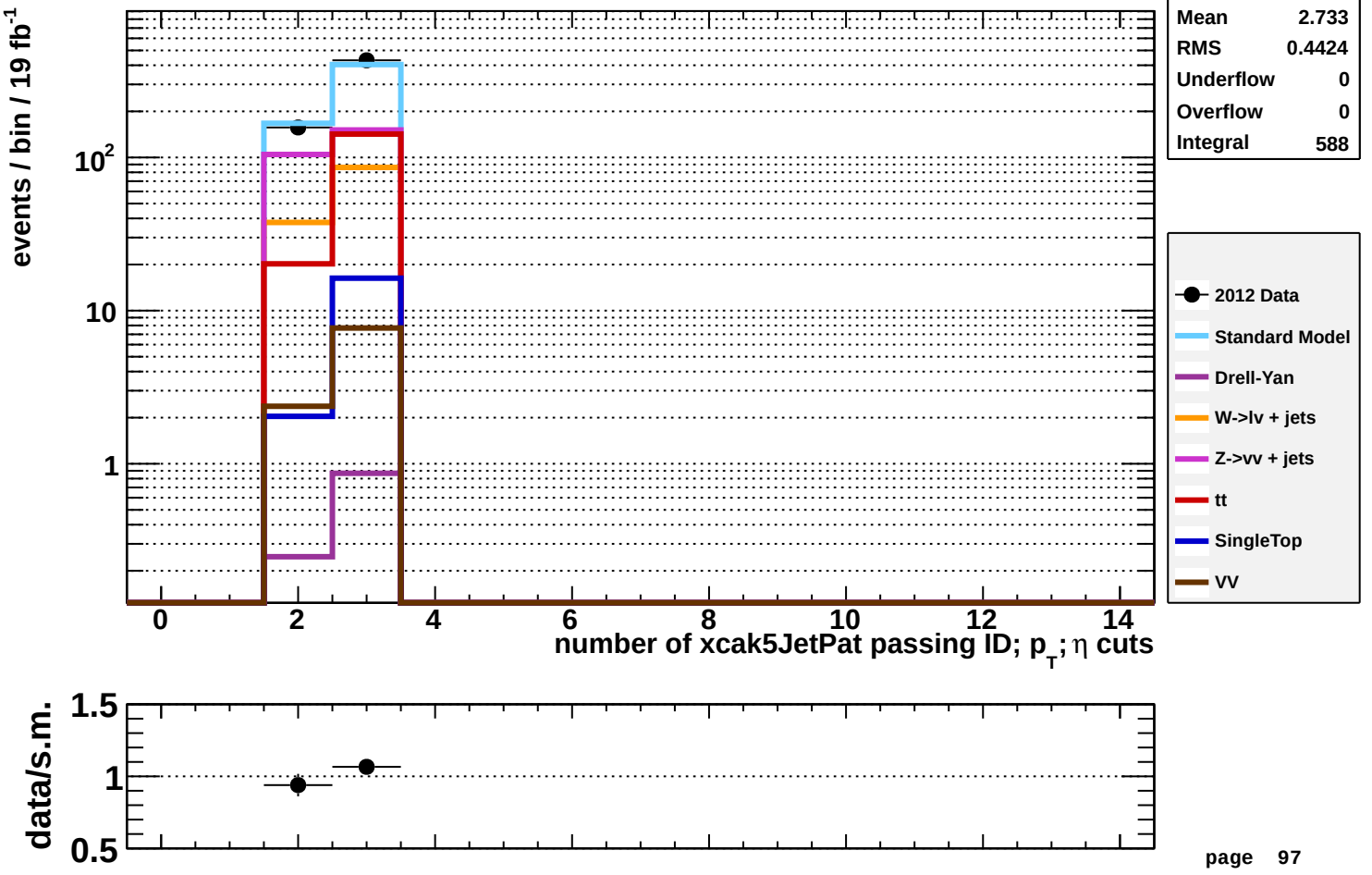

xcak5JetIndicesPat_ge4j_eq1b
Entries 389
Mean 4.231
RMS 0.4946
Underflow 0
Overflow 0
Integral 389
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

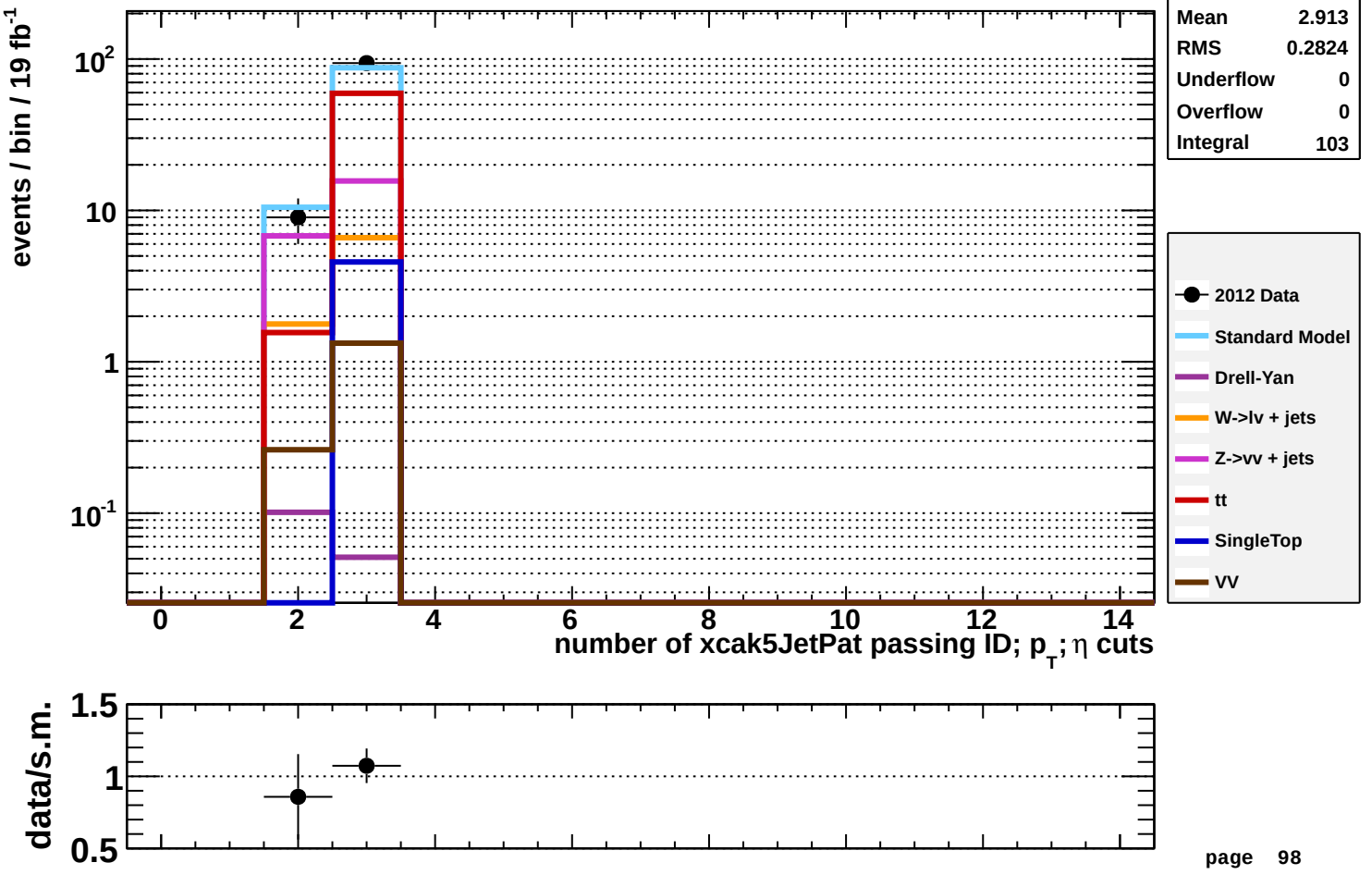

xcak5JetIndicesPat_ge4j_eq2b
Entries 173
Mean 4.289
RMS 0.5667
Underflow 0
Overflow 0
Integral 173
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

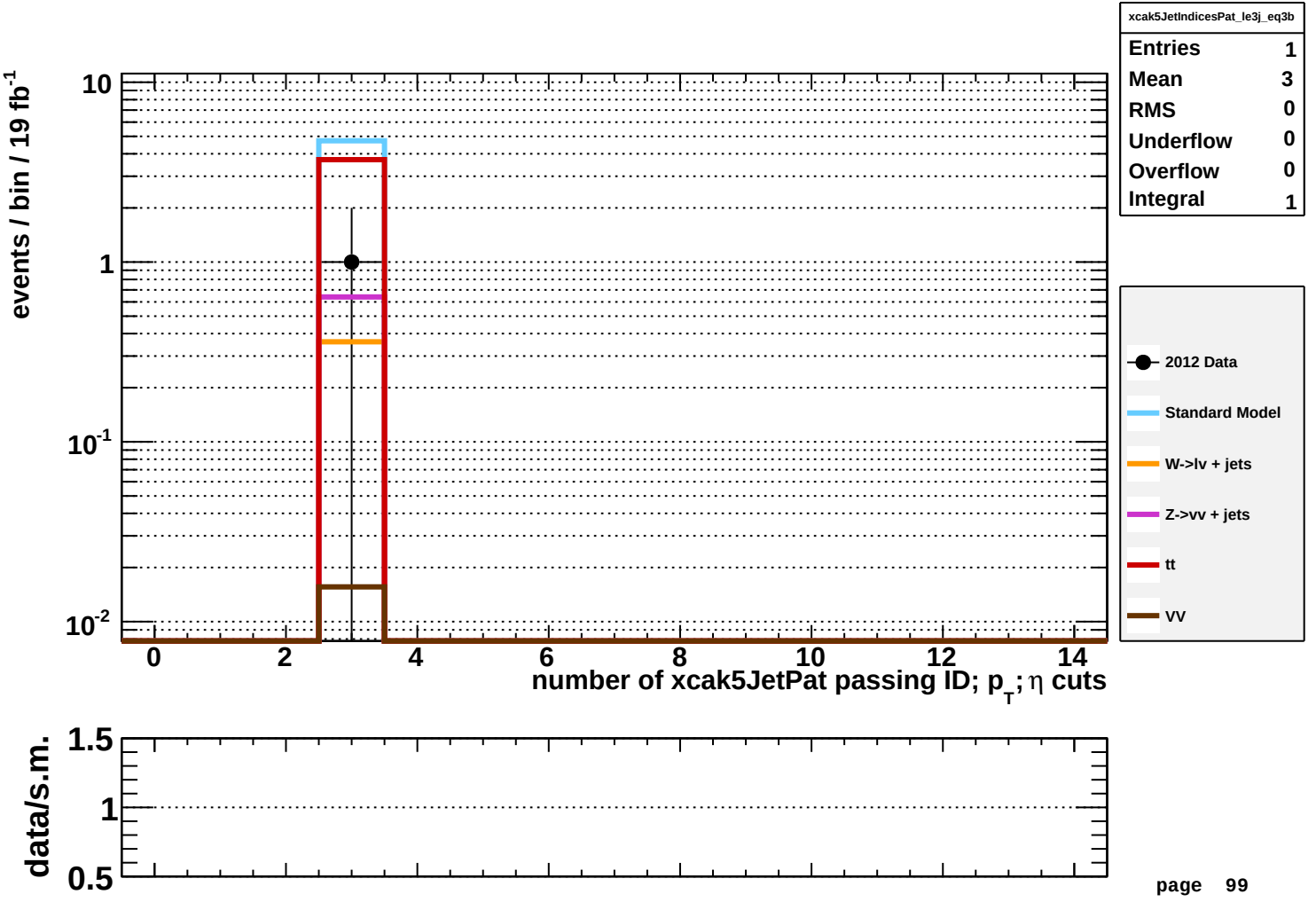

xcak5JetIndicesPat_ge4j_eq3b
Entries 20
Mean 4.5
RMS 0.5916
Underflow 0
Overflow 0
Integral 20
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10
1
10-1
0
2
4
6
8
10
12
14
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

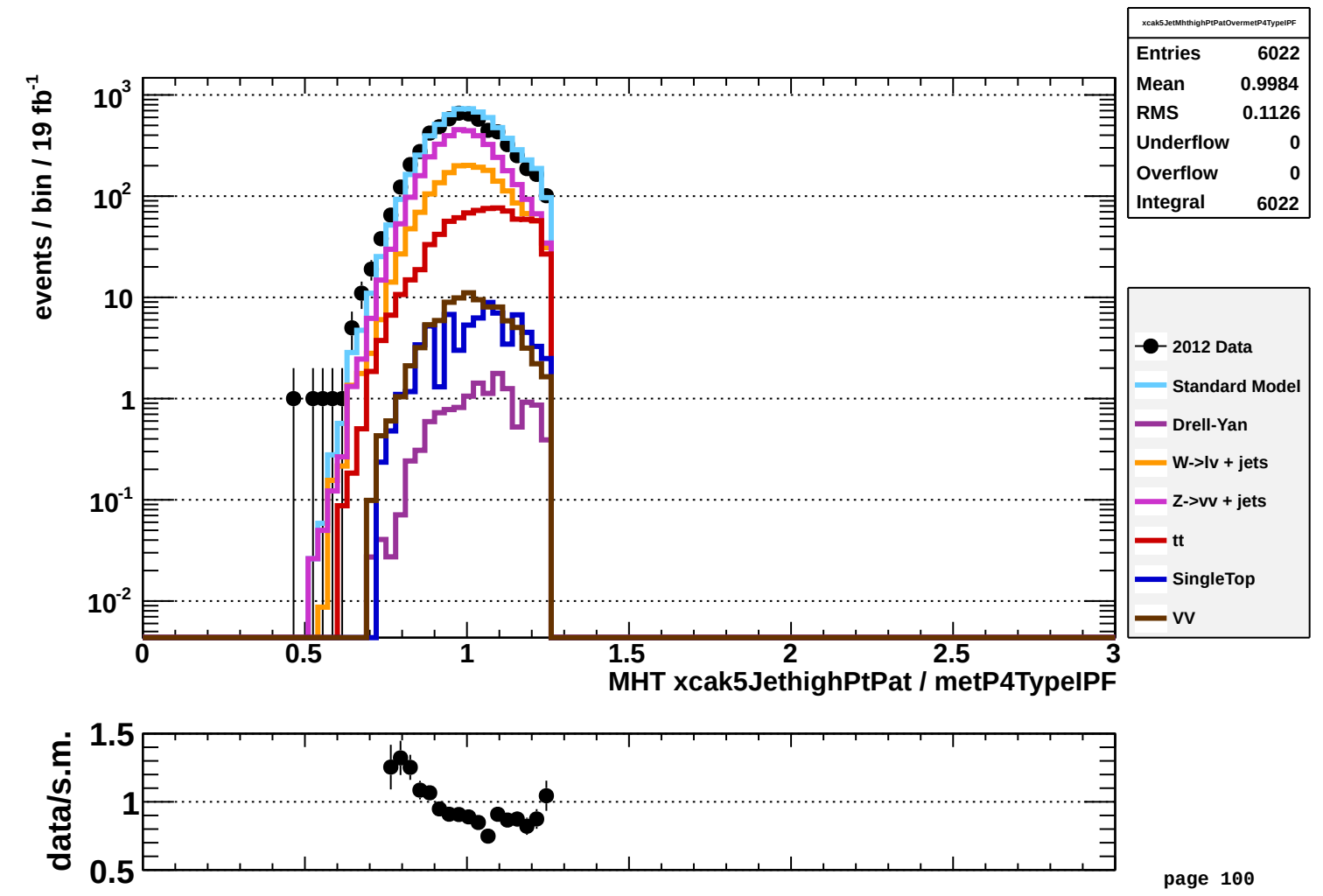

xcak5JetIndicesPat_ge4j_ge4b
Entries 3
Mean 4.667
RMS 0.4714
Underflow 0
Overflow 0
Integral 3
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
10-2
0
2
4
6
8
10
12
14
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

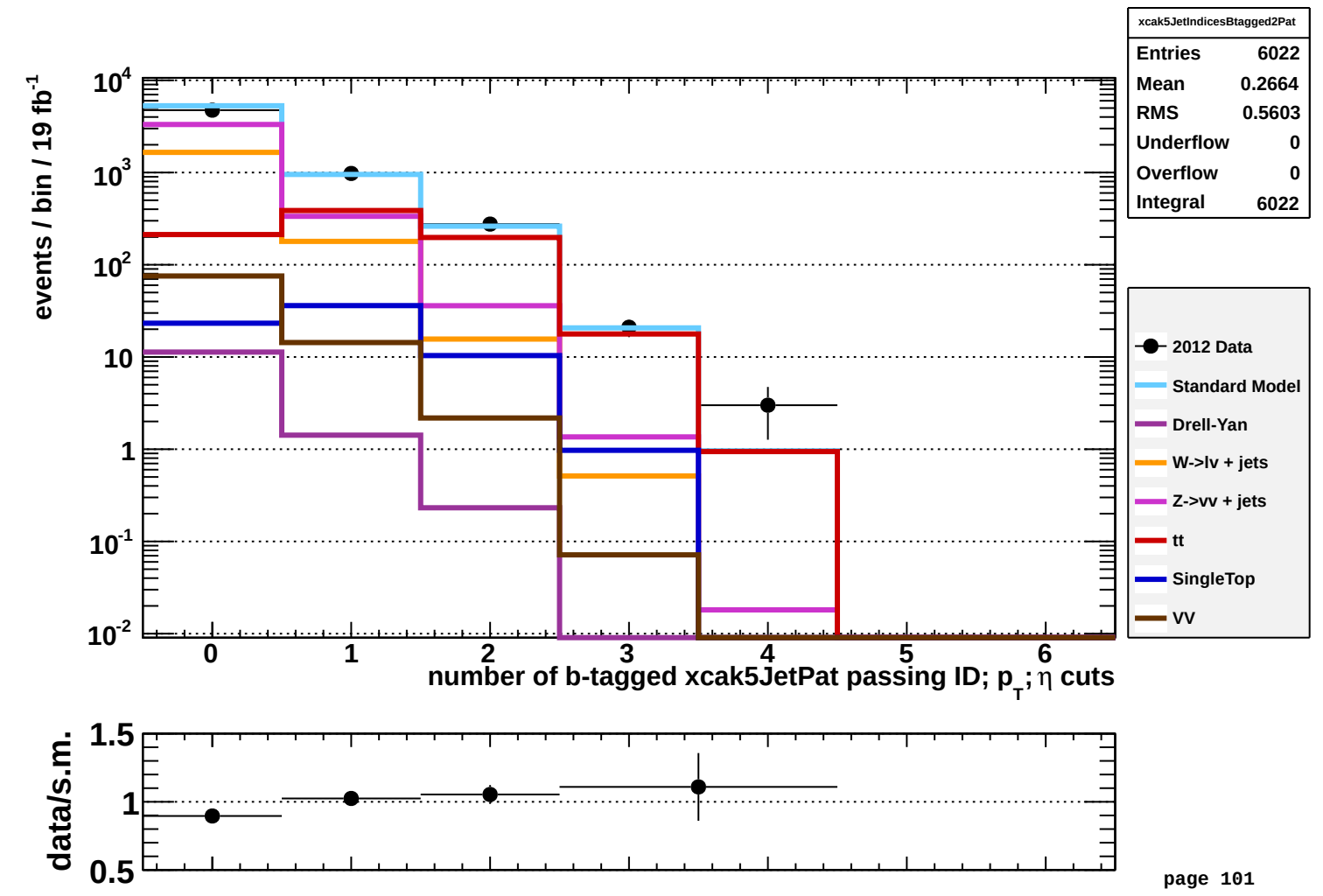

xcak5JetIndicesPat_le3j_eq0b
Entries 3765
Mean 2.543
RMS 0.4981
Underflow 0
Overflow 0
Integral 3765
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

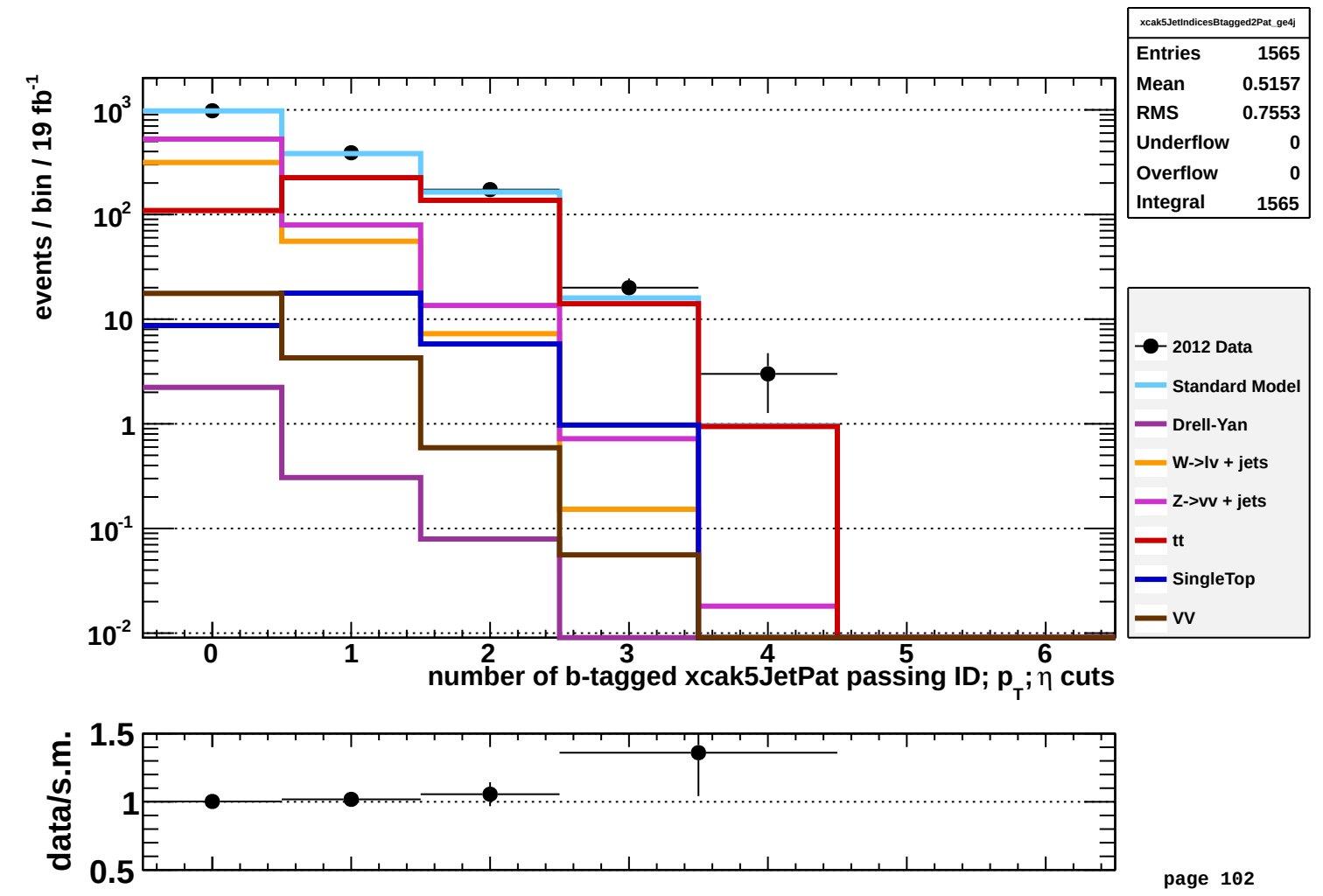

xcak5JetIndicesPat_le3j_eq1b
Entries 588
Mean 2.733
RMS 0.4424
Underflow 0
Overflow 0
Integral 588
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

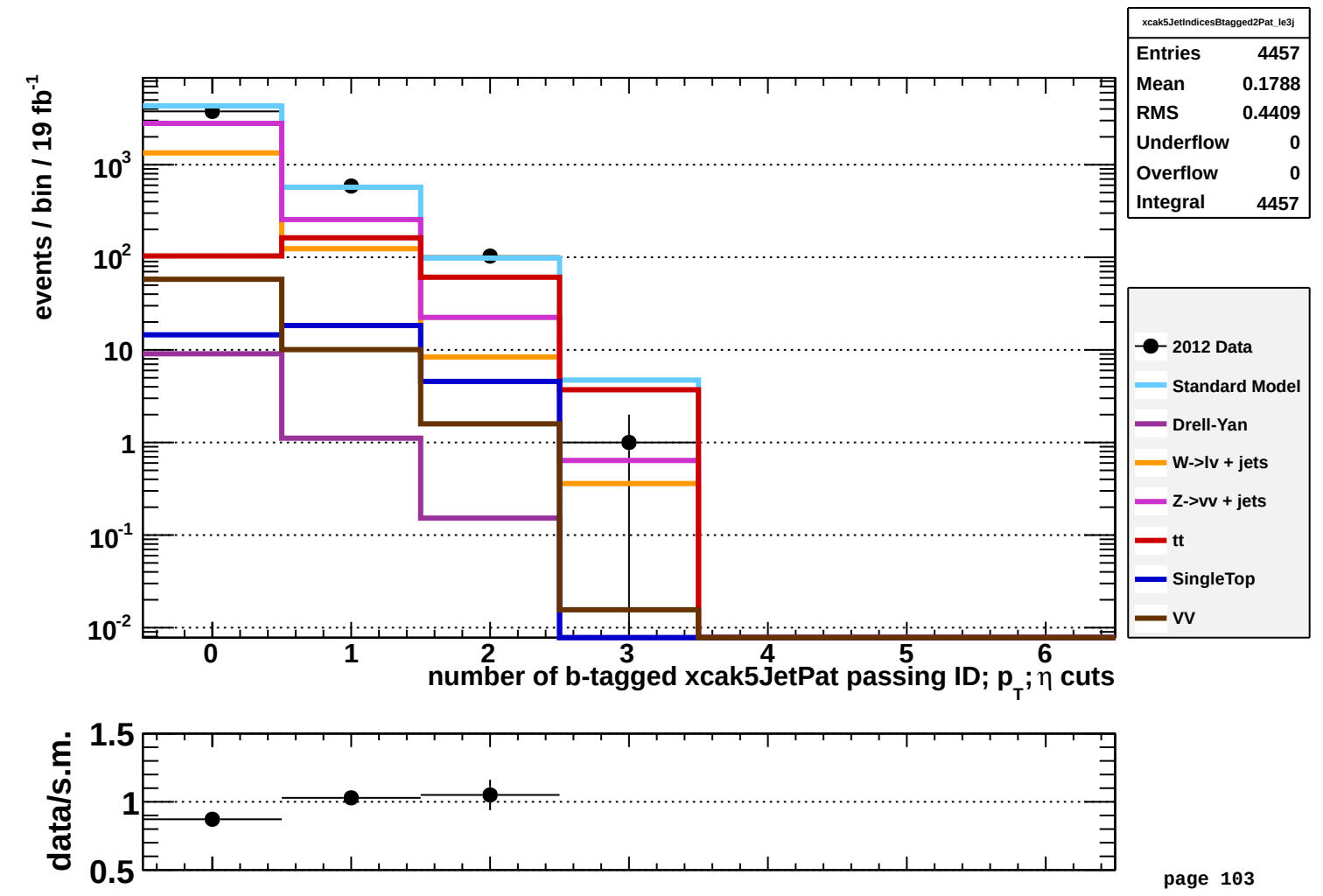

xcak5JetIndicesPat_le3j_eq2b
Entries 103
Mean 2.913
RMS 0.2824
Underflow 0
Overflow 0
Integral 103
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.


xcak5JetIndicesPat_le3j_eq3b
Entries 1
Mean 3
RMS 0
Underflow 0
Overflow 0
Integral 1
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
number of xcak5JetPat passing ID; pT; η cuts
data/s.m.

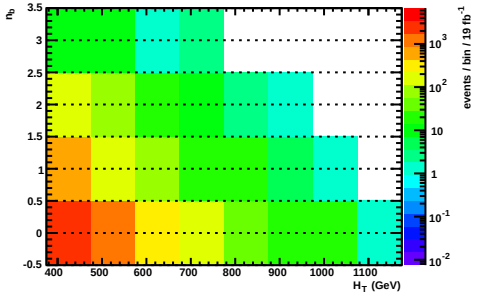

xcak5JetMhthighPtPatOvermetP4TypeIPF
Entries 6022
Mean 0.9984
RMS 0.1126
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
MHT xcak5JethighPtPat / metP4TypeIPF
data/s.m.


xcak5JetIndicesBtagged2Pat
Entries 6022
Mean 0.2664
RMS 0.5603
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPat passing ID; pT; η cuts
data/s.m.

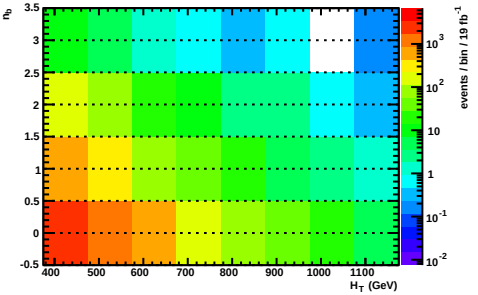

xcak5JetIndicesBtagged2Pat_ge4j
Entries 1565
Mean 0.5157
RMS 0.7553
Underflow 0
Overflow 0
Integral 1565
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPat passing ID; pT; η cuts
data/s.m.


xcak5JetIndicesBtagged2Pat_le3j
Entries 4457
Mean 0.1788
RMS 0.4409
Underflow 0
Overflow 0
Integral 4457
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
number of b-tagged xcak5JetPat passing ID; pT; η cuts
data/s.m.

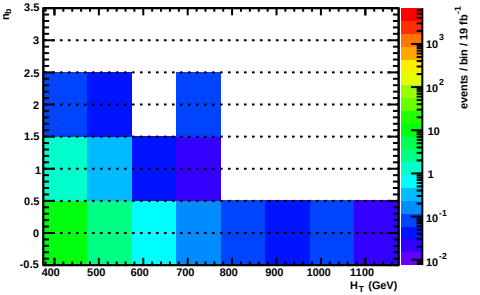
2012 Data



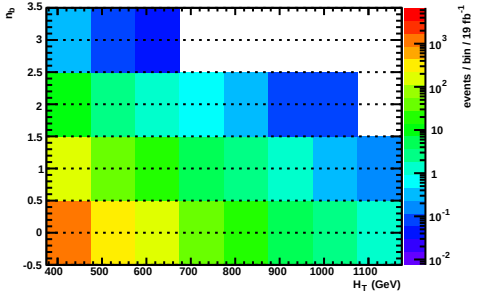
Standard Model



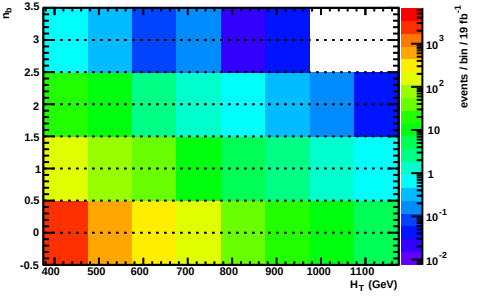
Drell-Yan



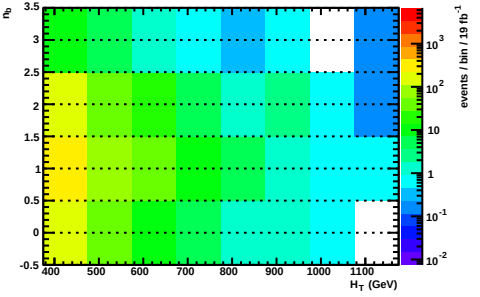
W->lv + jets



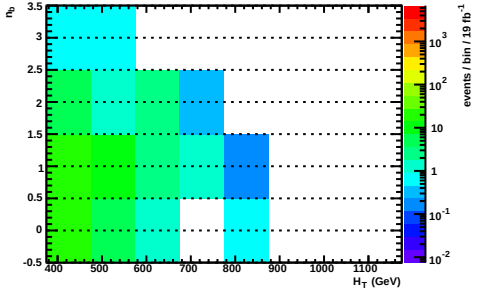
Z->vv + jets



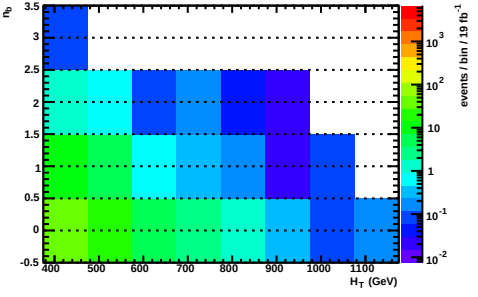
tt



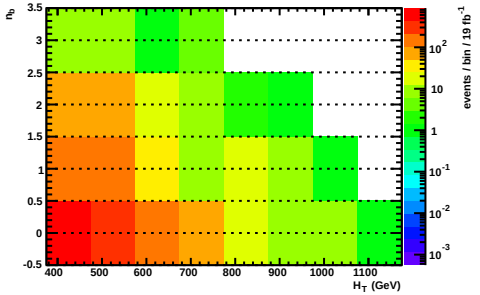
SingleTop



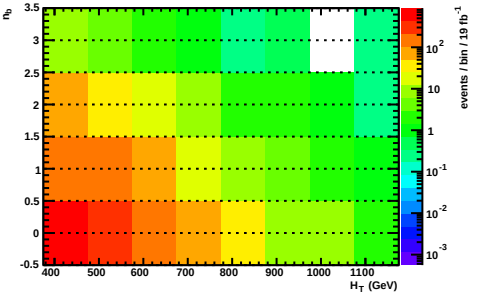
VV



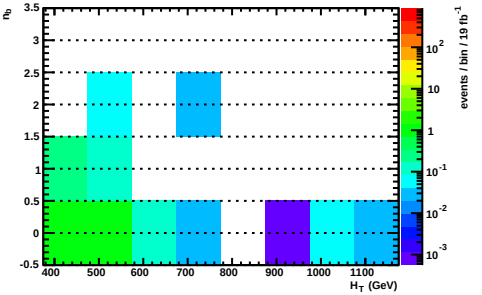
2012 Data



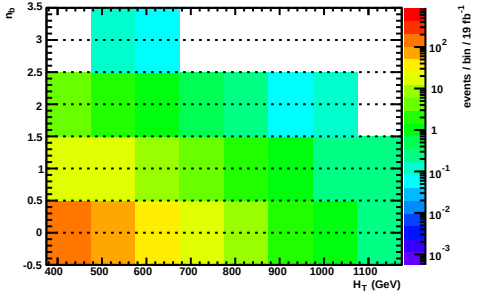
Standard Model



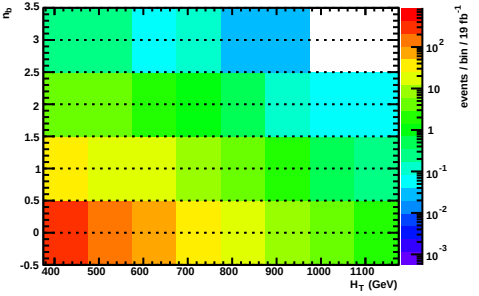
Drell-Yan



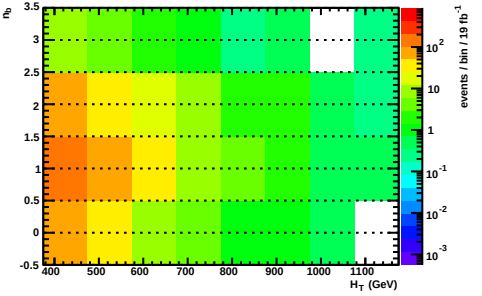
W->lv + jets



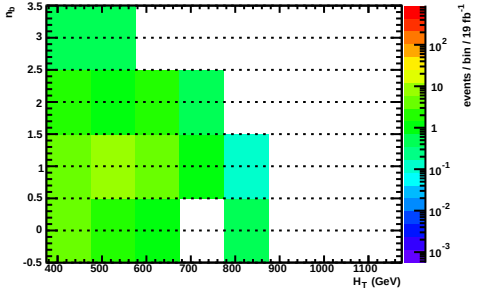
Z->vv + jets



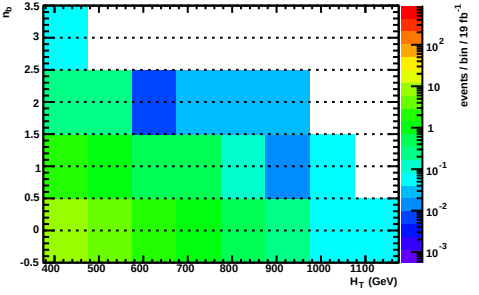
tt



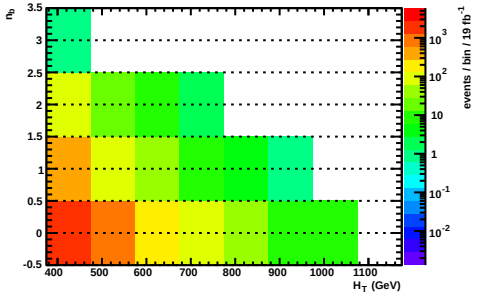
SingleTop



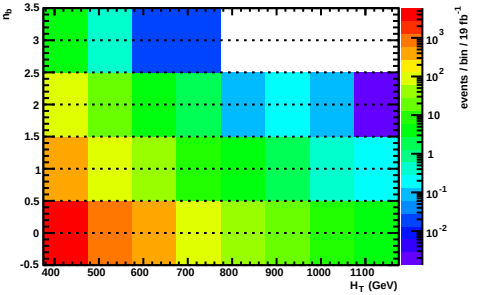
VV



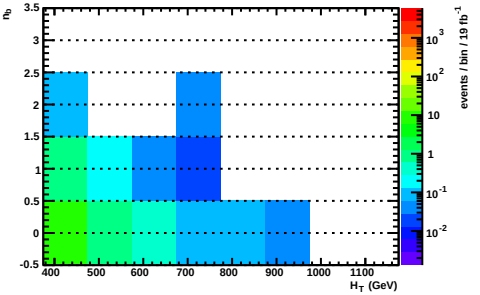
2012 Data



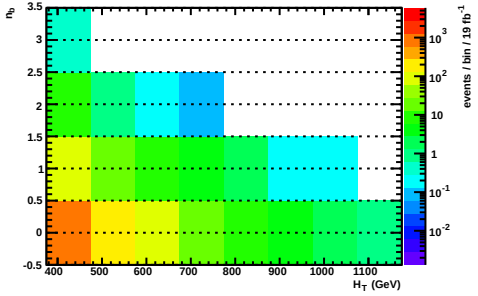
Standard Model



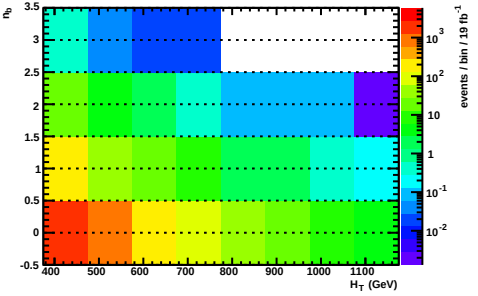
Drell-Yan



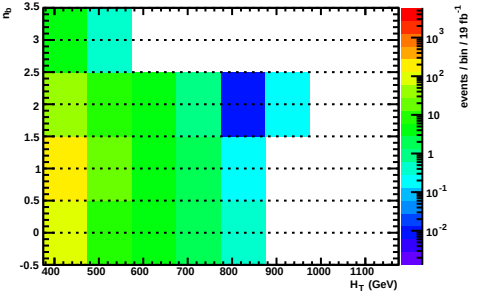
W->lv + jets



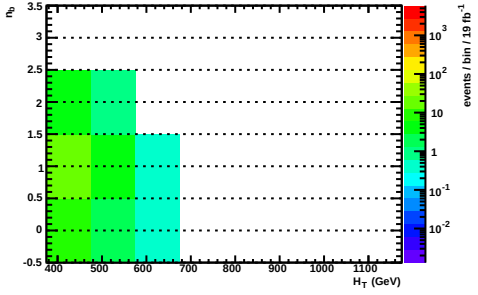
Z->vv + jets



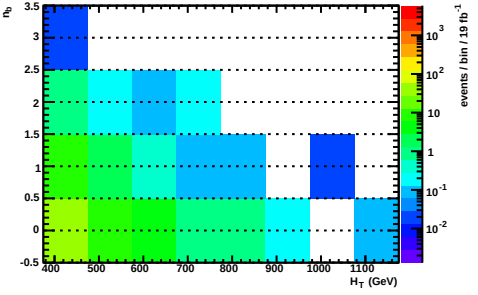
tt

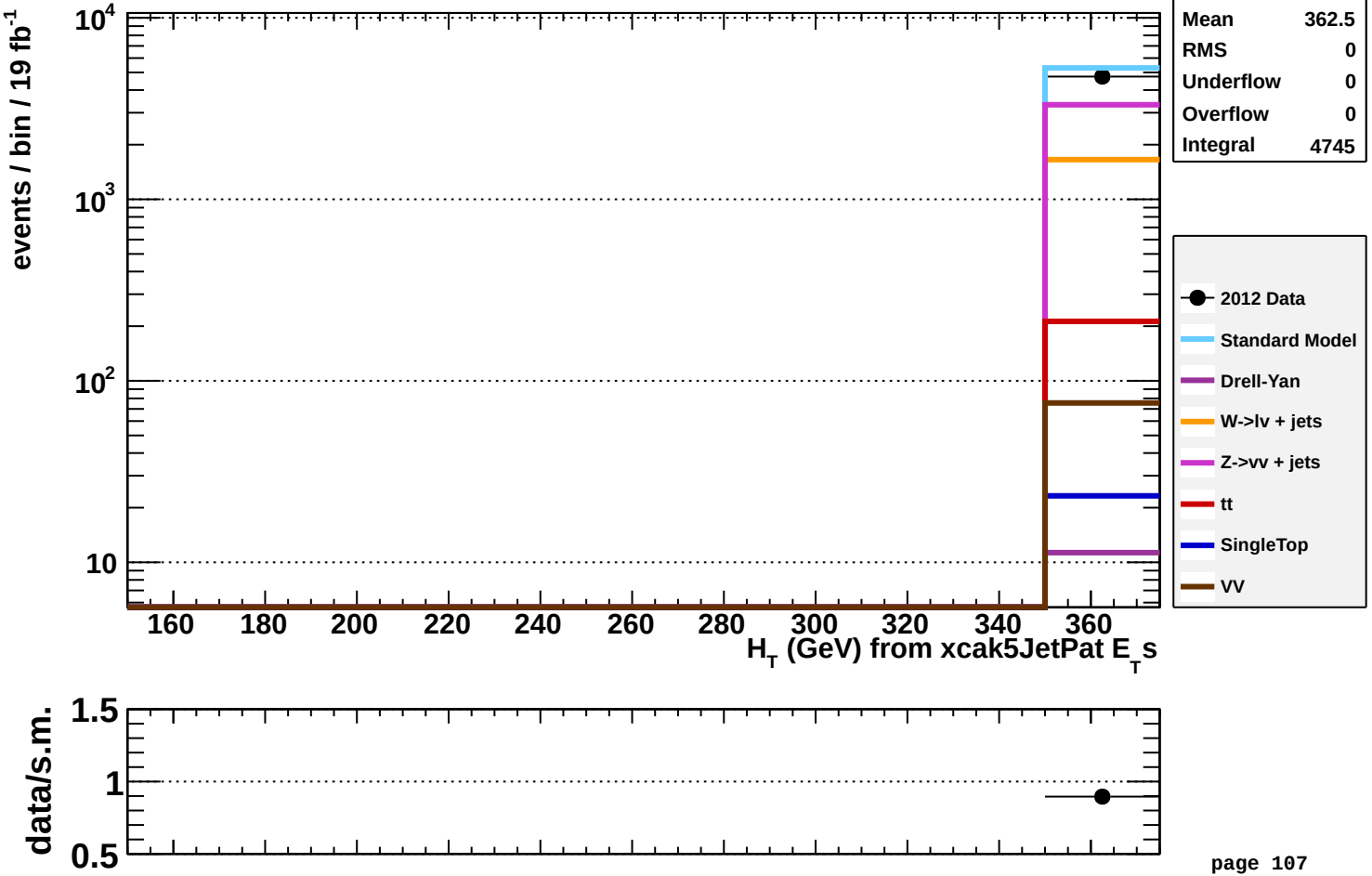


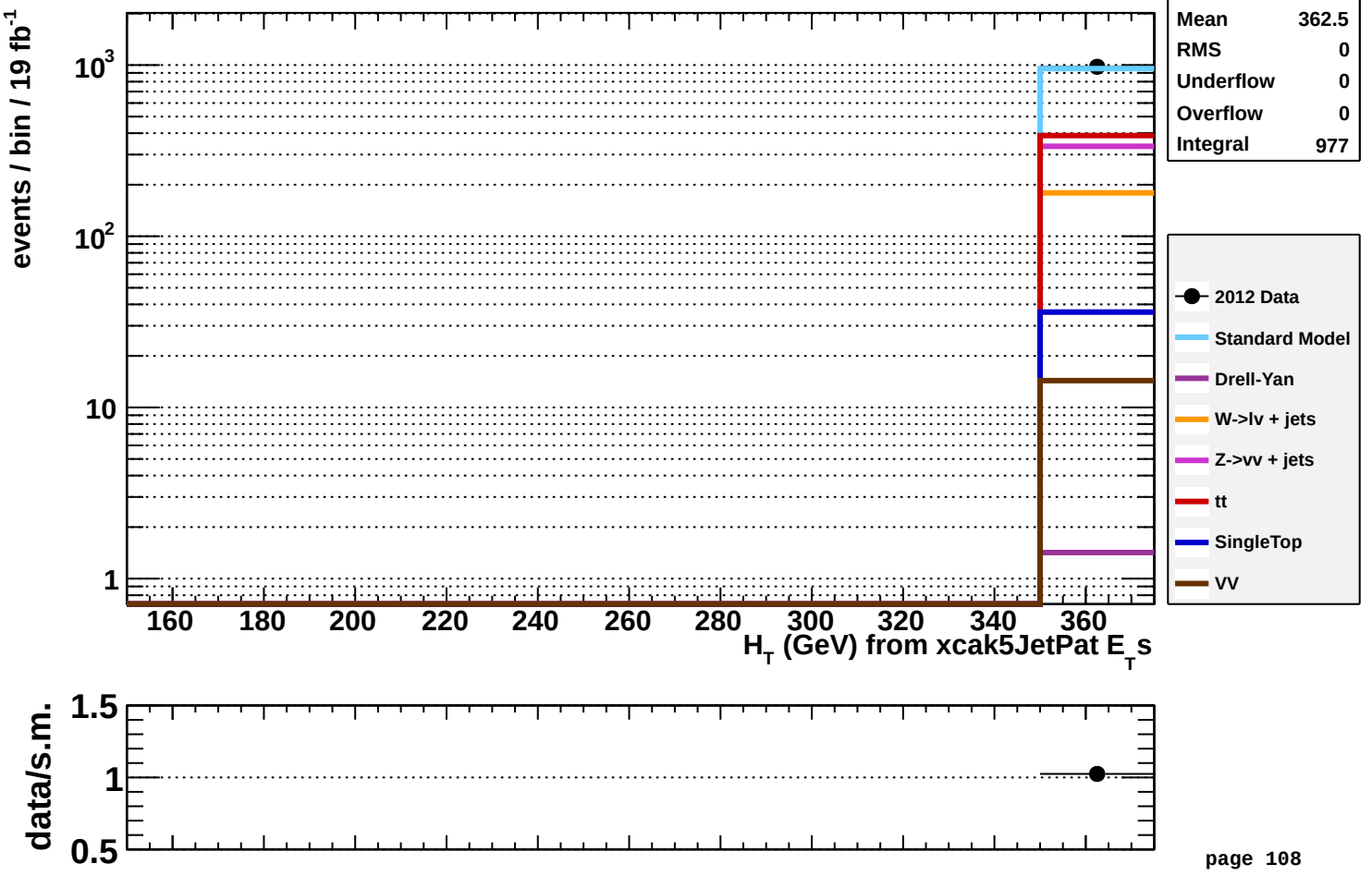
SingleTop

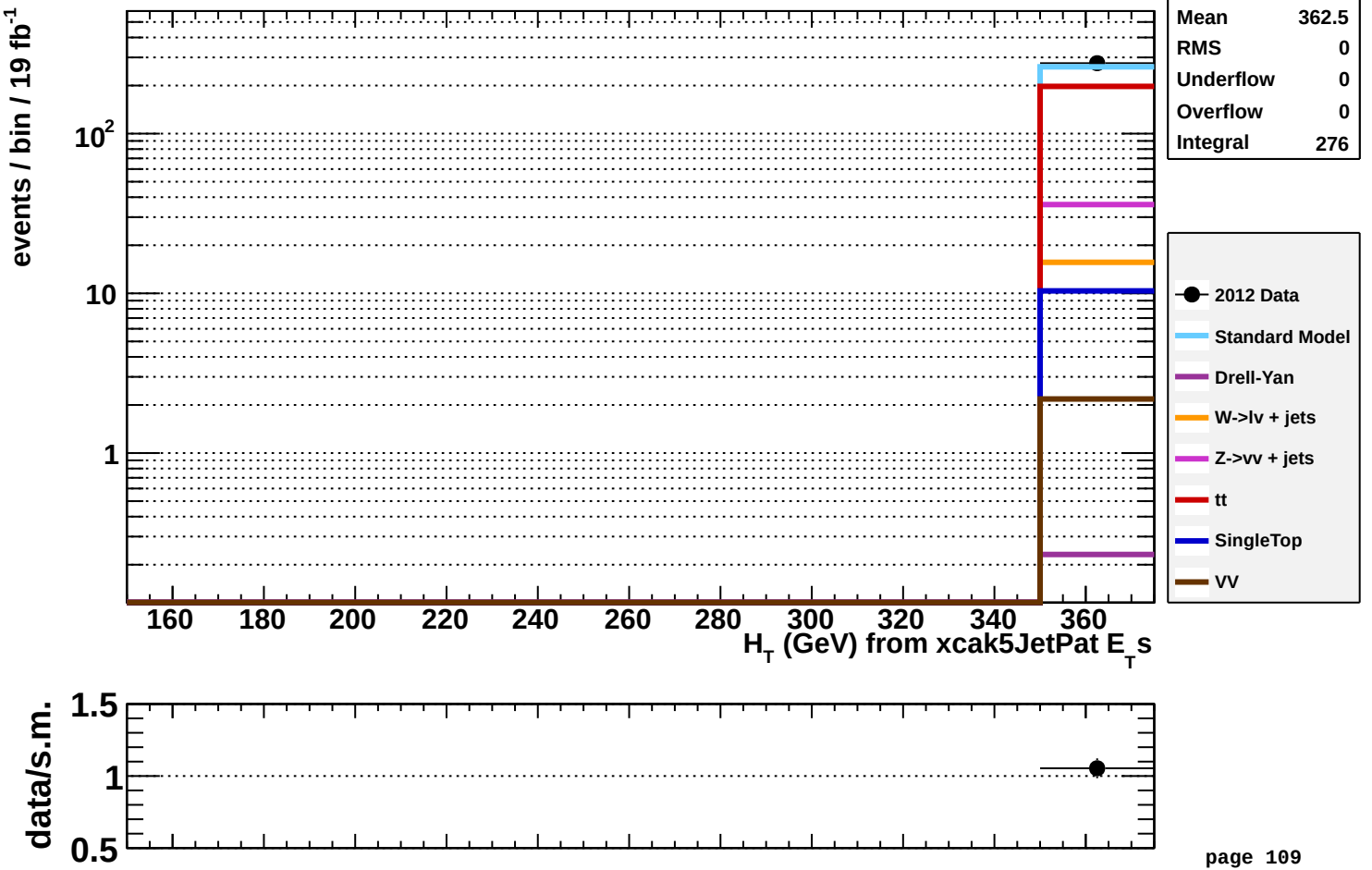


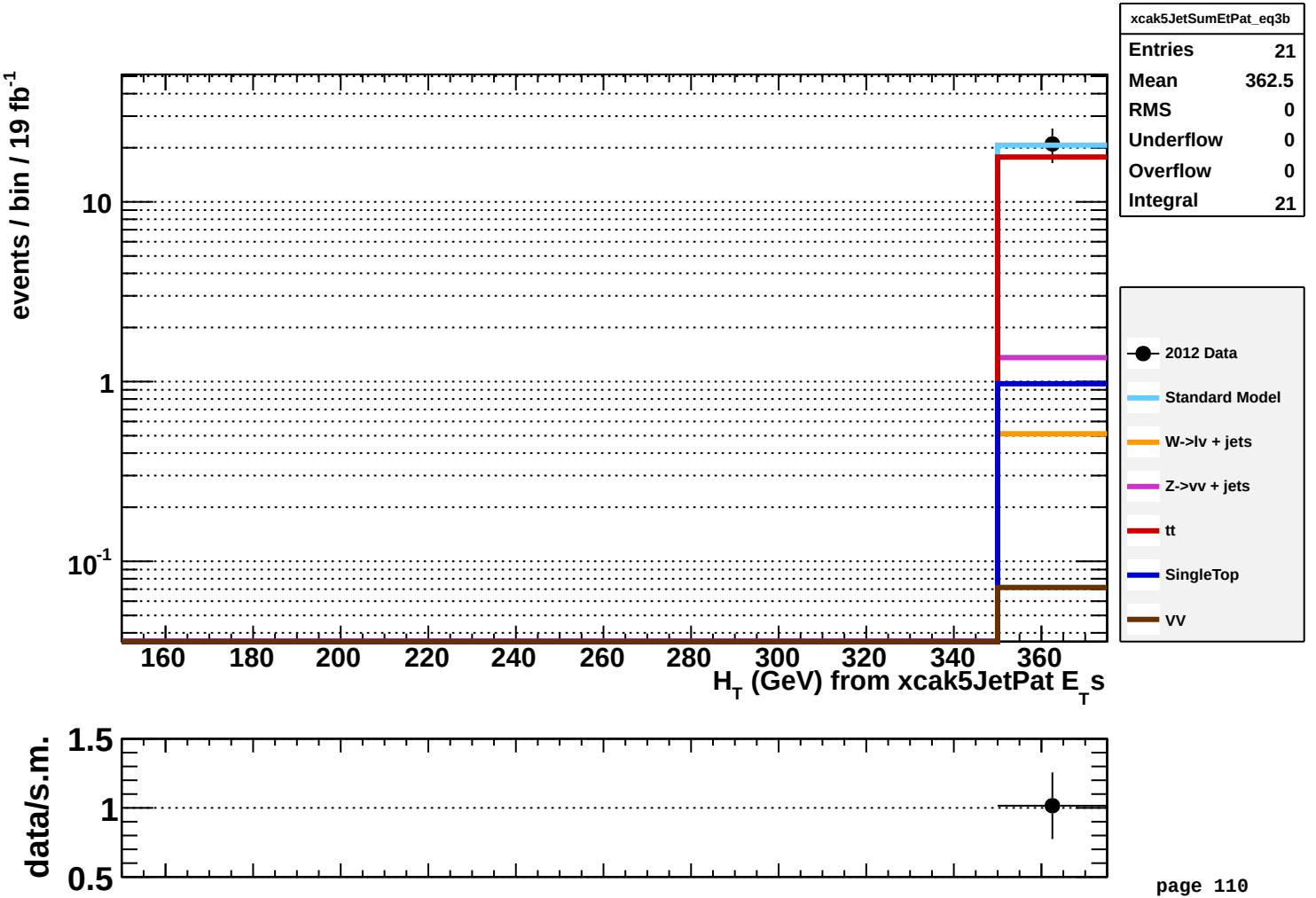
VV

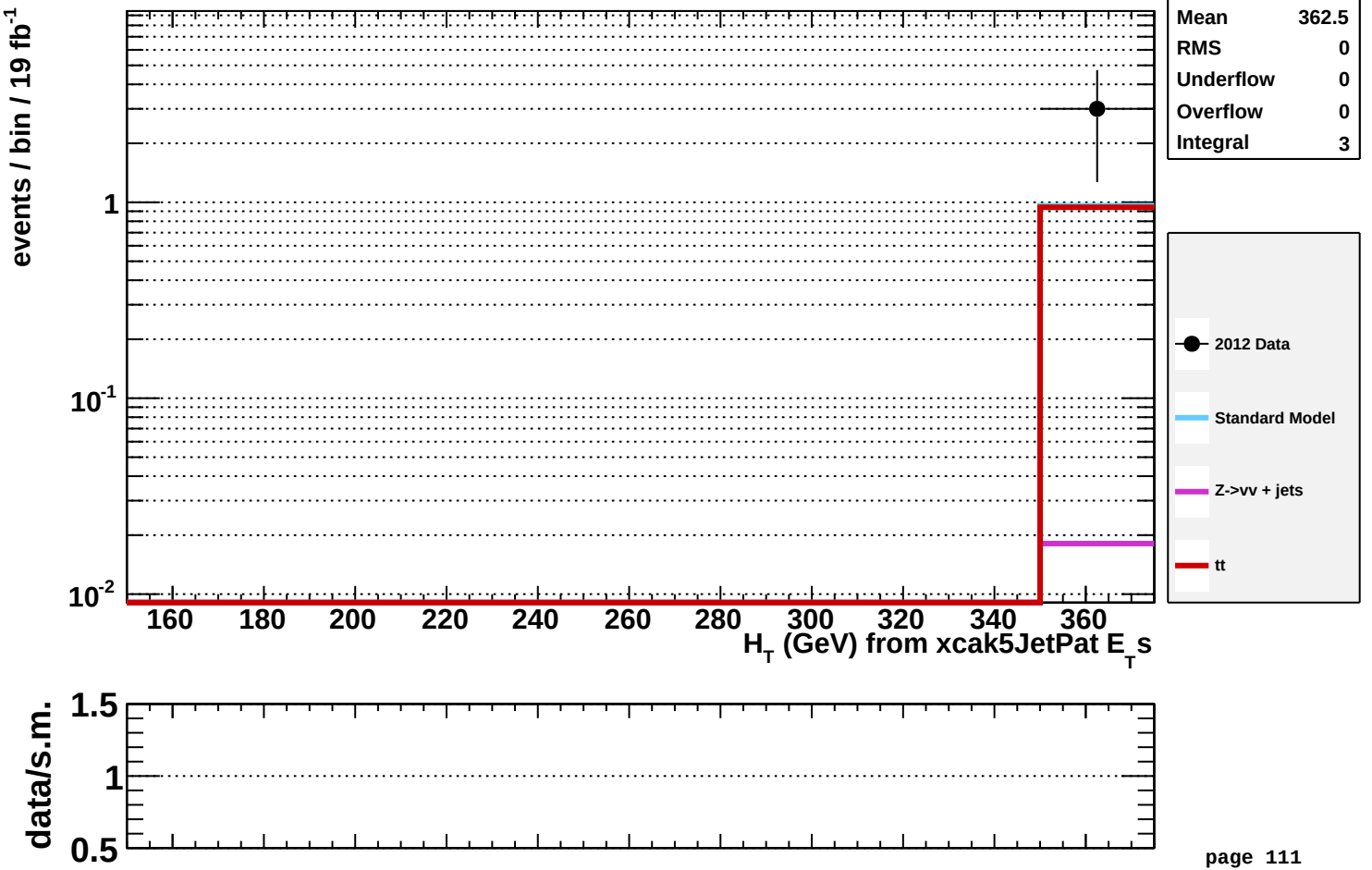


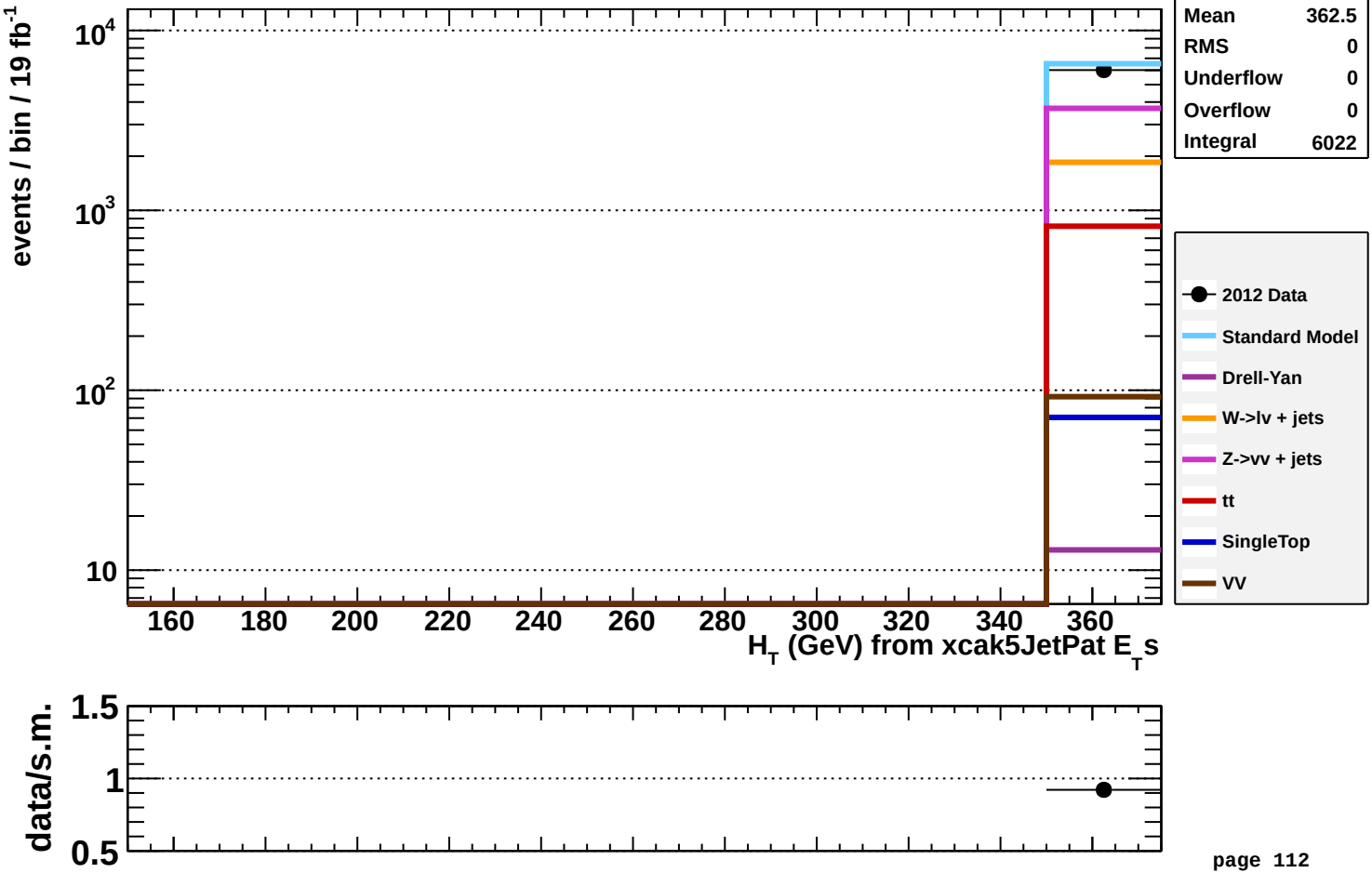

xcak5JetSumEtPat_eq0b
Entries 4745
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 4745
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
160
180
200
220
240
260
280
300
320
340
360
H_T (GeV) from xcak5JetPat E_T s
data/s.m.
1.5
1
0.5

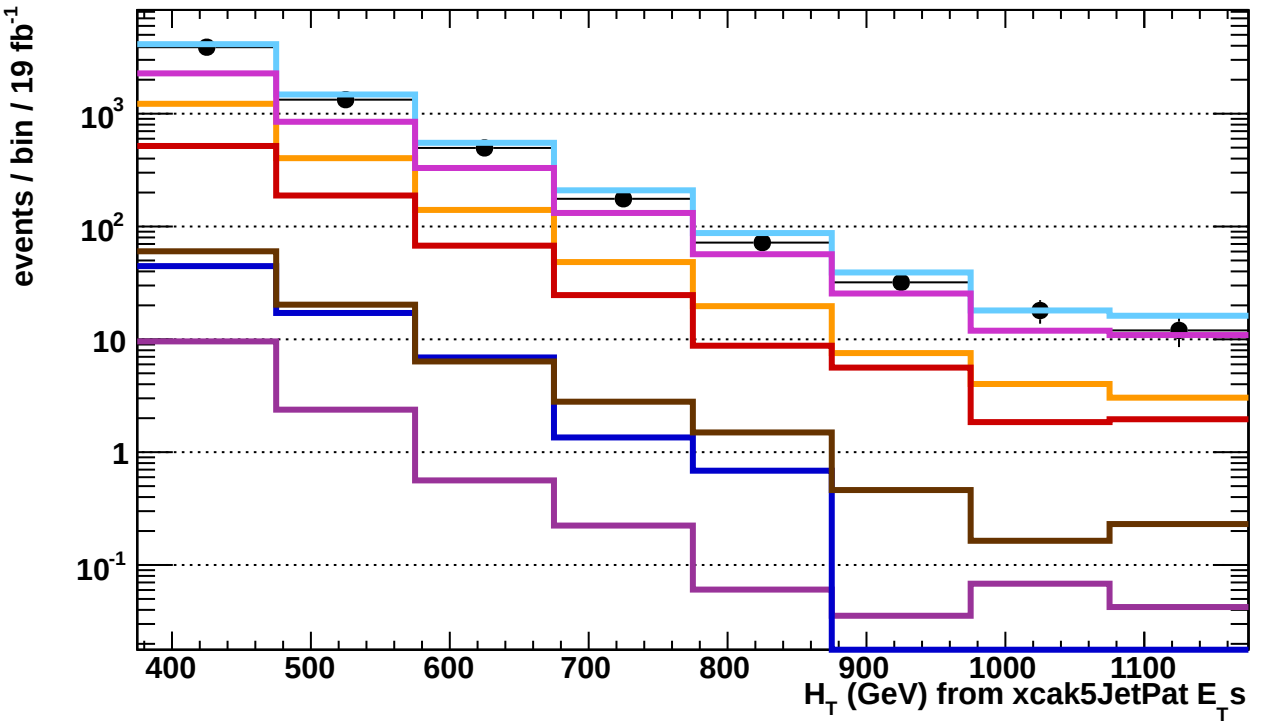

xcak5JetSumEtPat_eq1b
Entries 977
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 977
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.


xcak5JetSumEtPat_eq2b
Entries 276
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 276
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 xcak5JetPat E_T s
data/s.m.
1.5
1
0.5


xcak5JetSumEtPat_eq3b
Entries 21
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 21
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10
1
10-1
160
180
200
220
240
260
280
300
320
340
360
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5

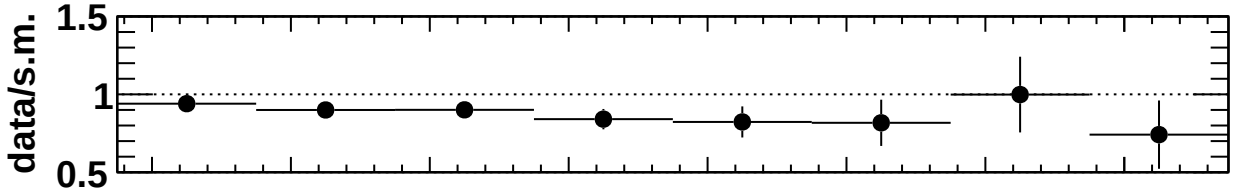

xcak5JetSumEtPat_ge4b
Entries 3
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 3
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
10-2
160
180
200
220
240
260
280
300
320
340
360
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5

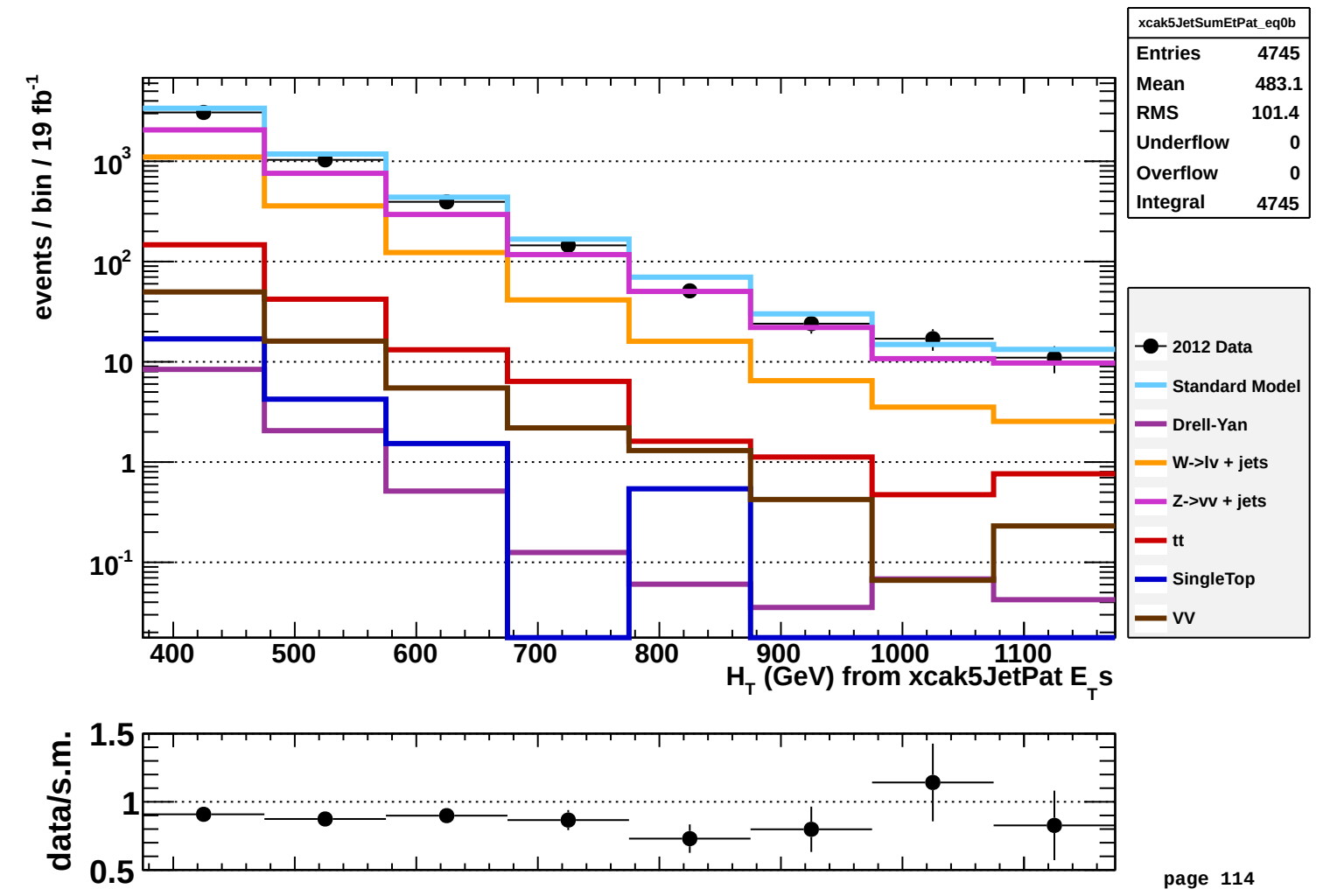

xcak5JetSumEtPat
Entries 6022
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 6022
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10^4
10^3
10^2
10
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPat E_T s
data/s.m.
1.5
1
0.5

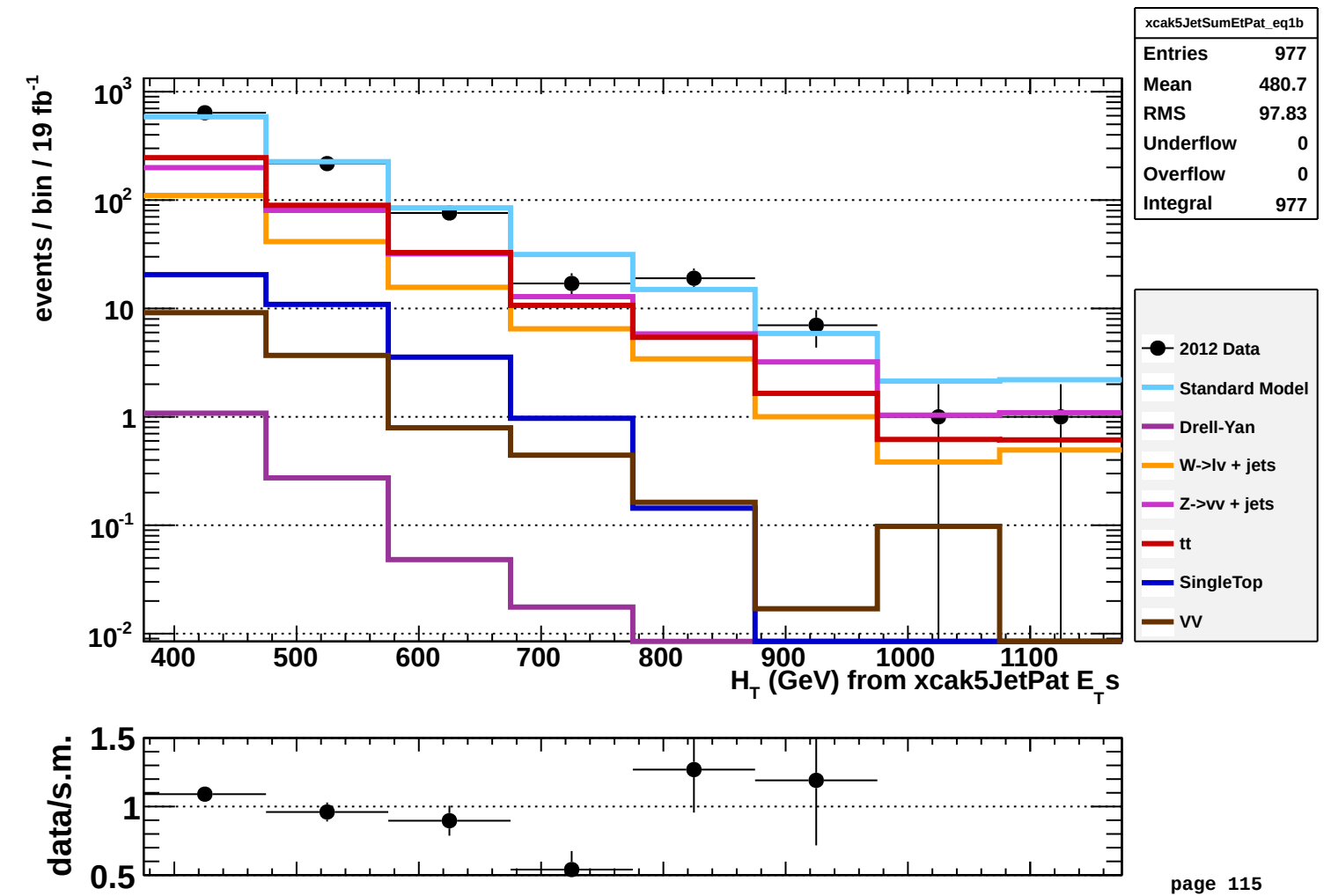


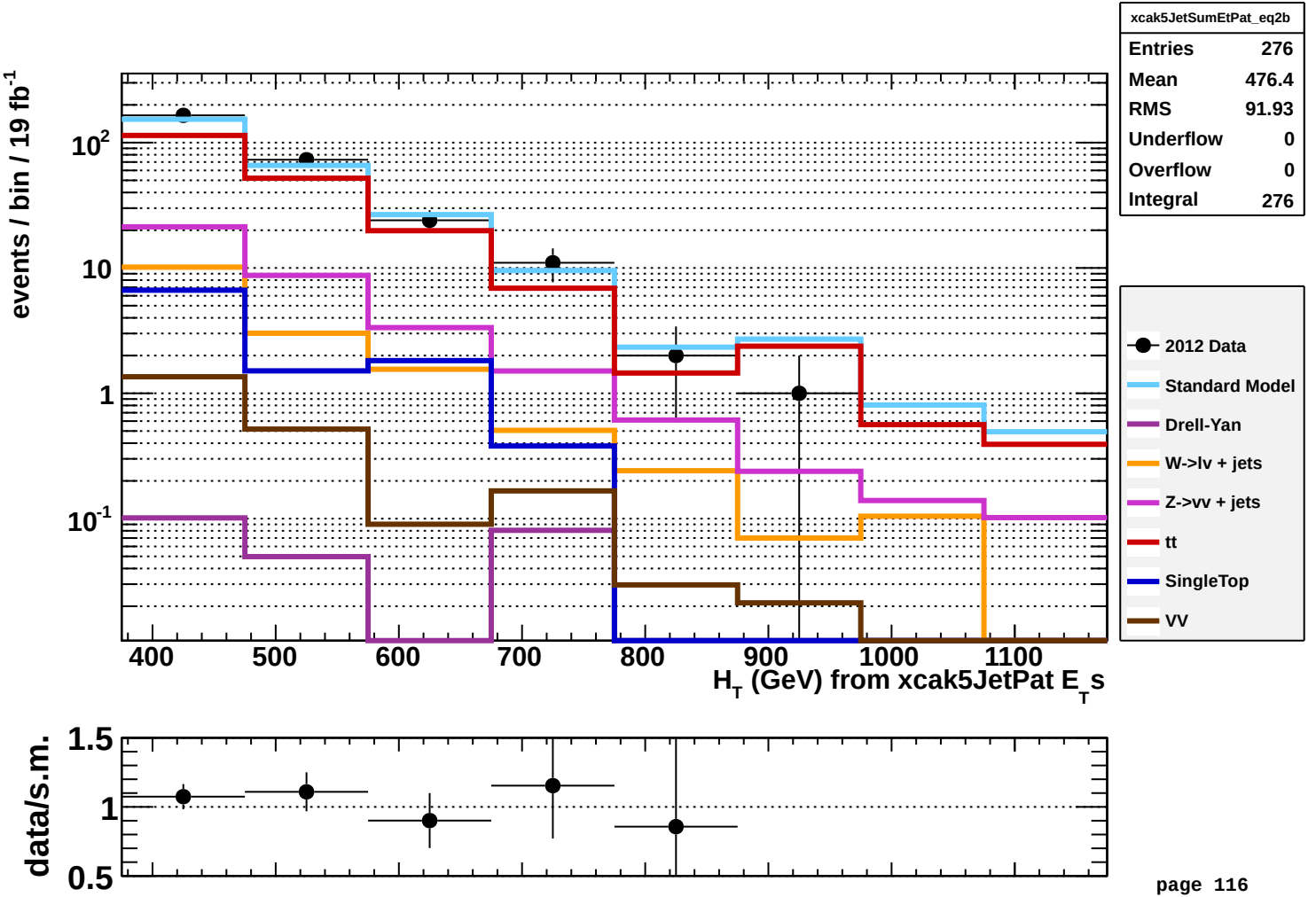
xcak5JetSumEtPat	
Entries	6022
Mean	483
RMS	100.4
Underflow	0
Overflow	0
Integral	6022

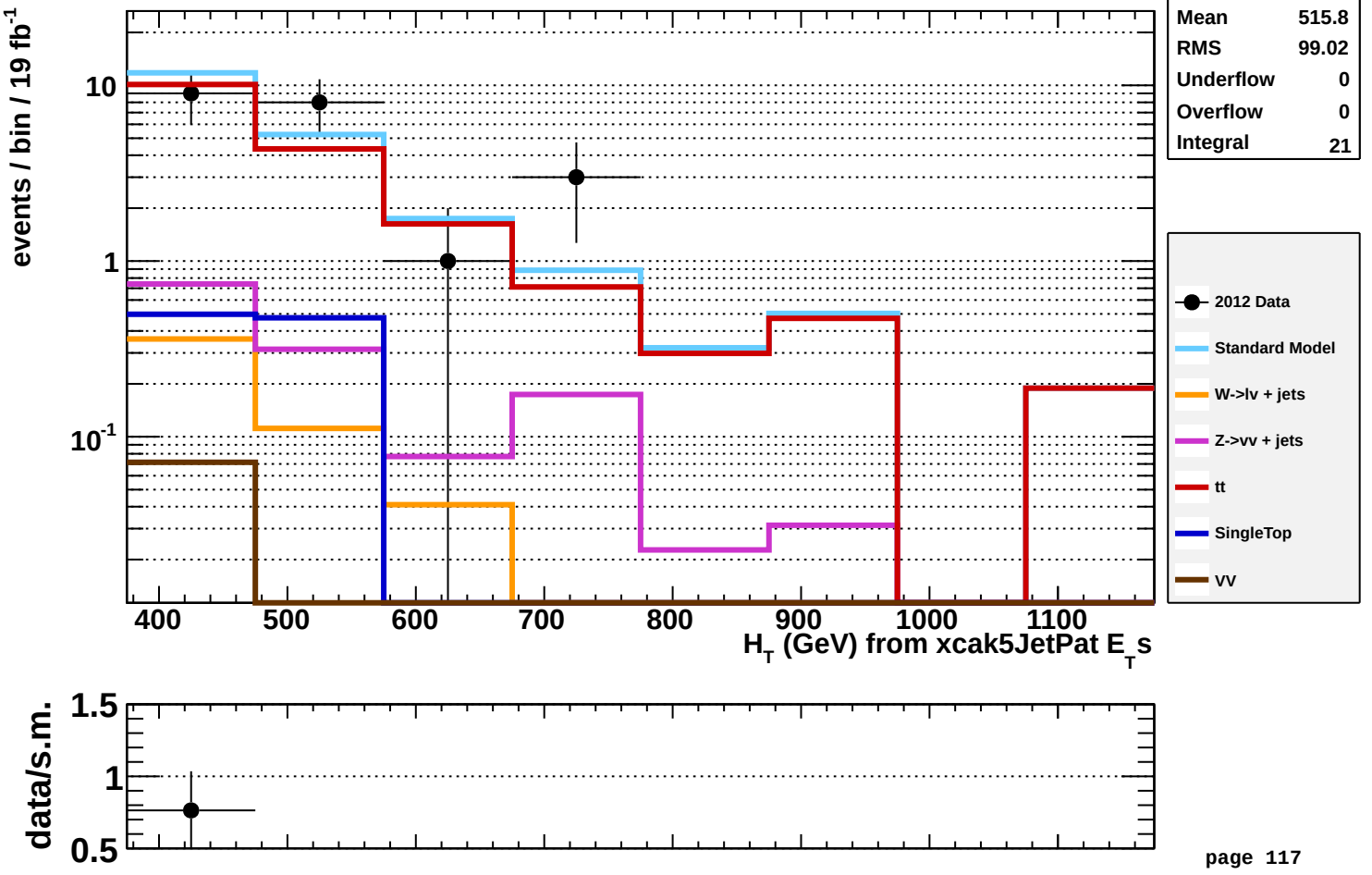
- 2012 Data
- Standard Model
- Drell-Yan
- W->lv + jets
- Z->vv + jets
- tt
- SingleTop
- VV

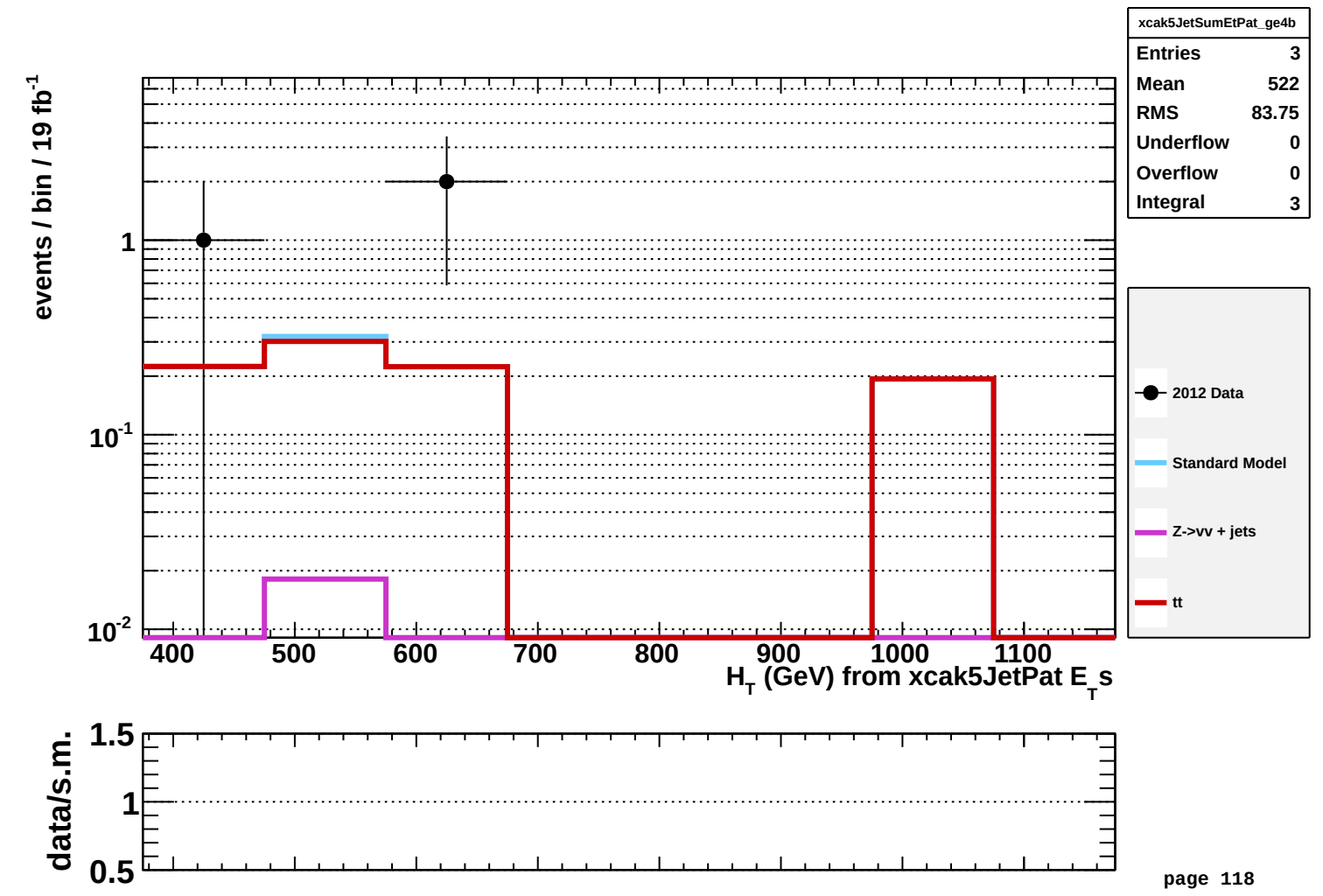


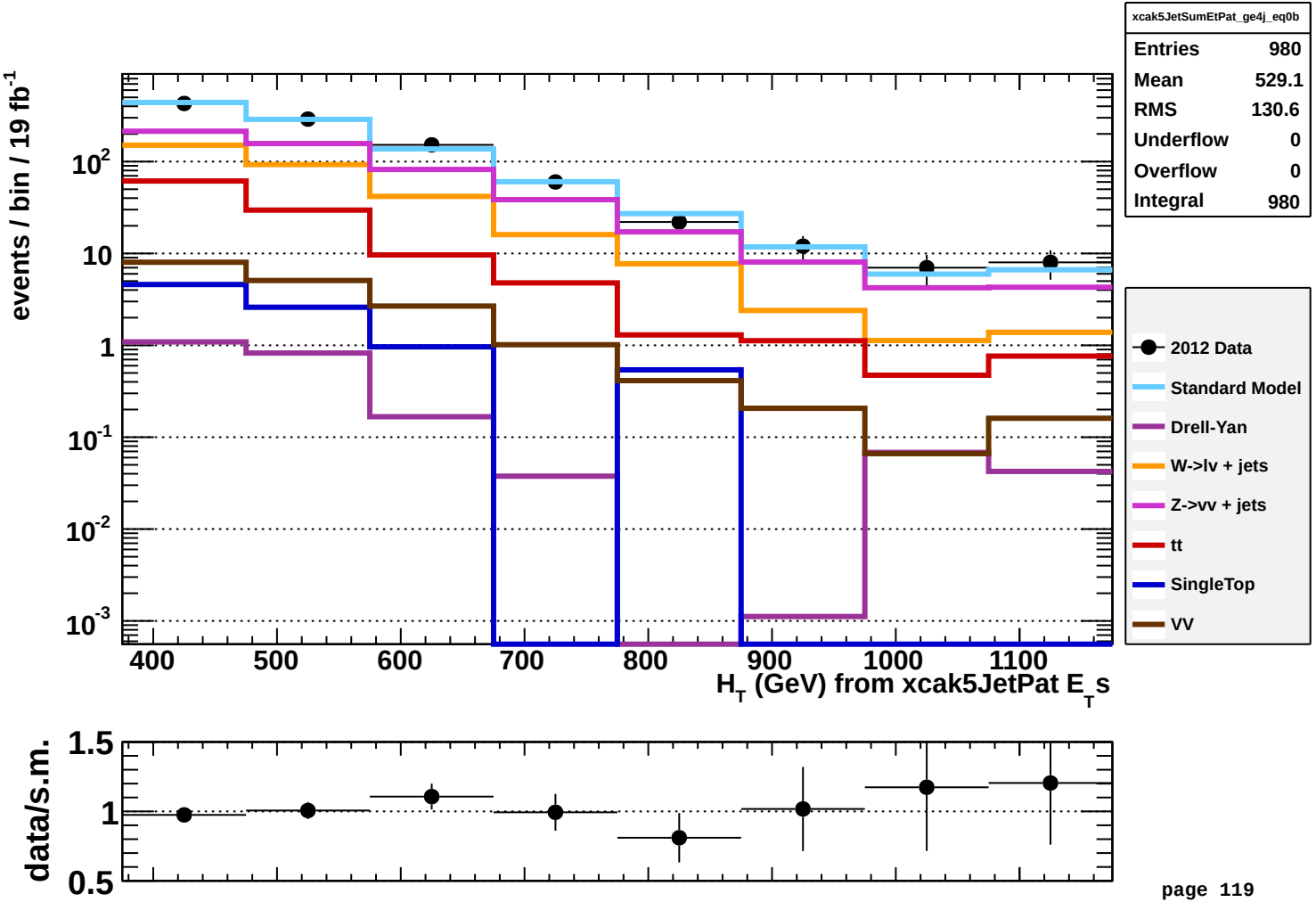

xcak5JetSumEtPat_eq0b
Entries 4745
Mean 483.1
RMS 101.4
Underflow 0
Overflow 0
Integral 4745
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

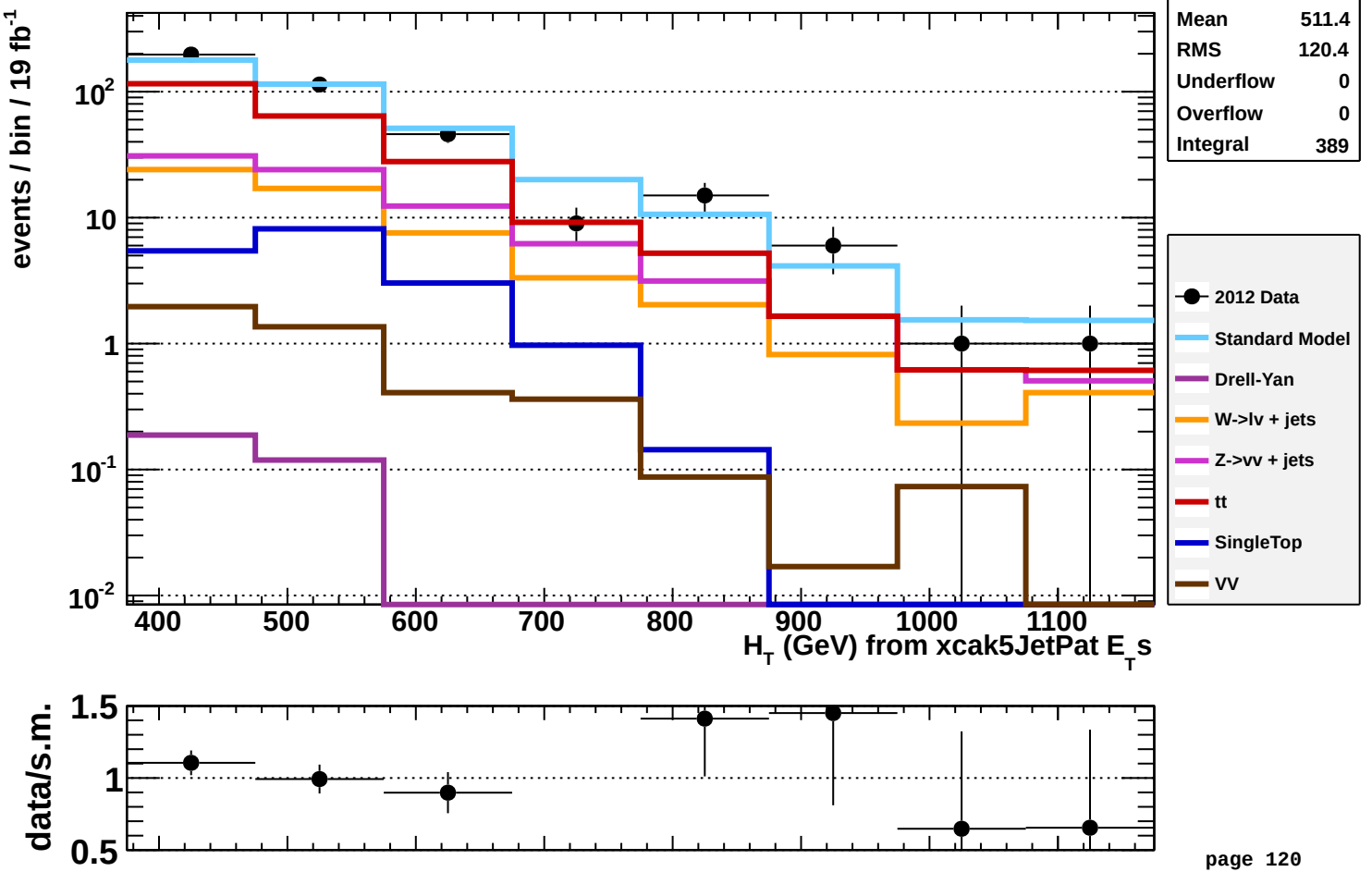

xcak5JetSumEtPat_eq1b
Entries 977
Mean 480.7
RMS 97.83
Underflow 0
Overflow 0
Integral 977
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

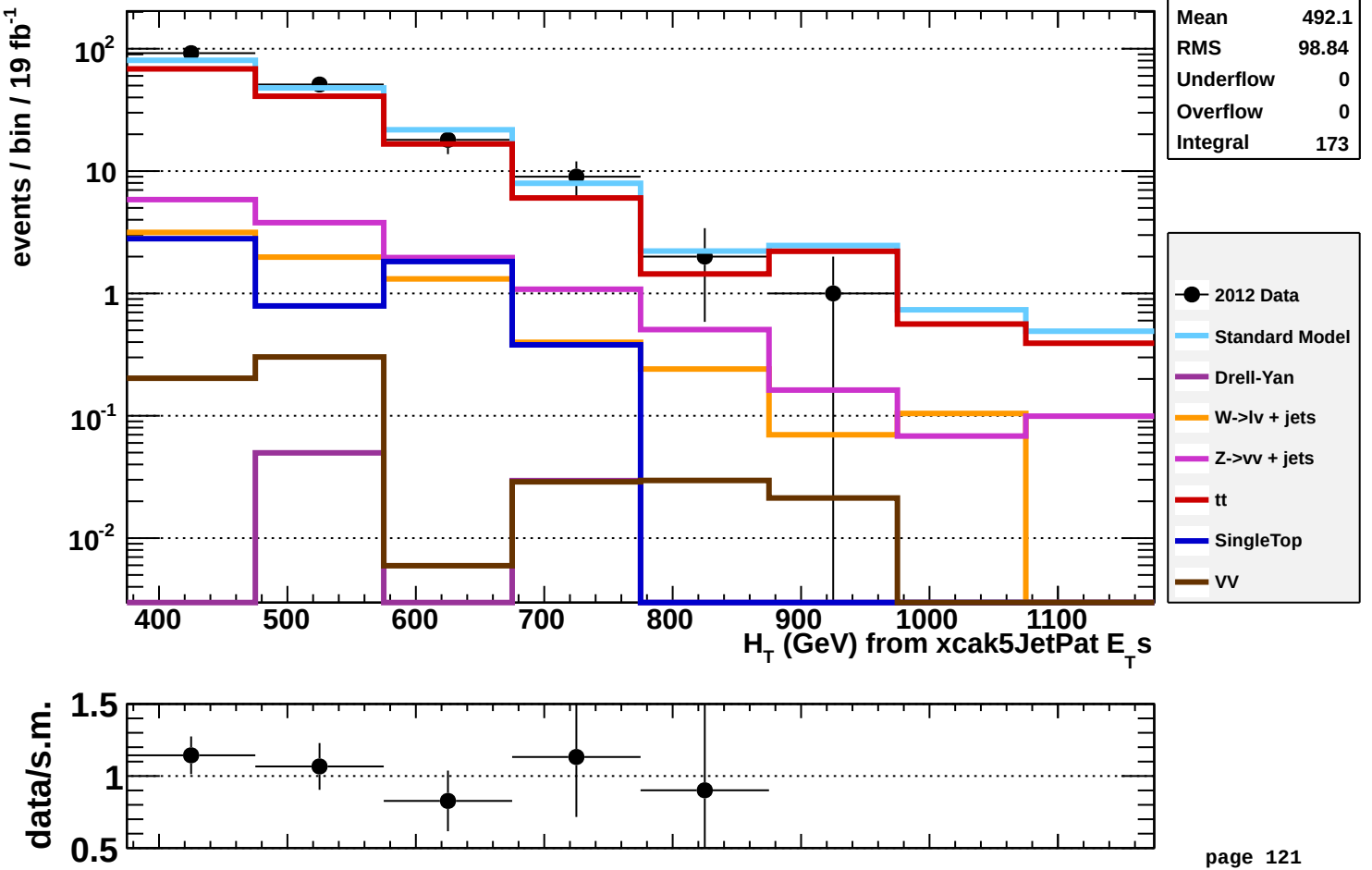

xcak5JetSumEtPat_eq2b
Entries 276
Mean 476.4
RMS 91.93
Underflow 0
Overflow 0
Integral 276
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

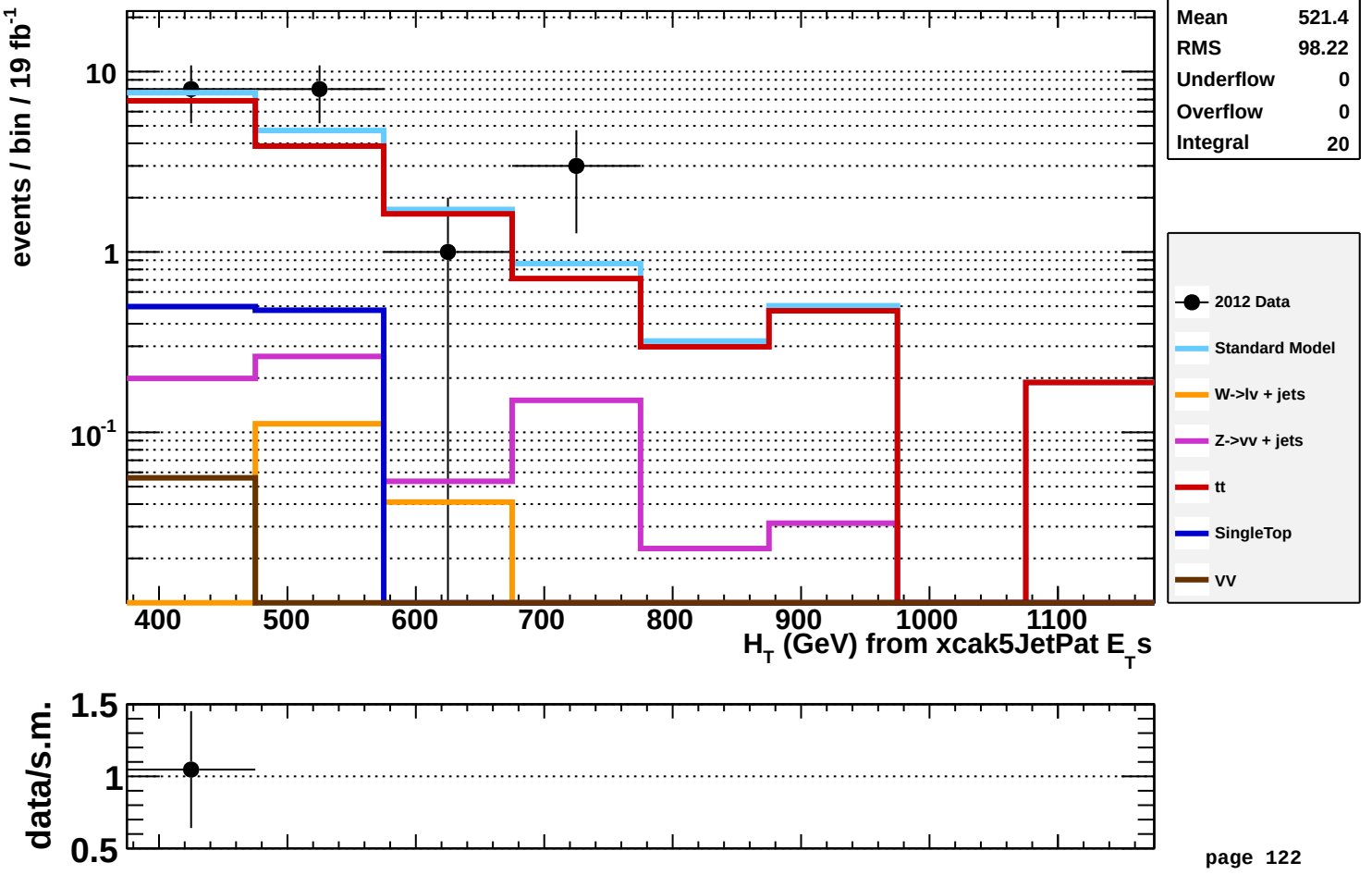

xcak5JetSumEtPat_eq3b
Entries 21
Mean 515.8
RMS 99.02
Underflow 0
Overflow 0
Integral 21
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5

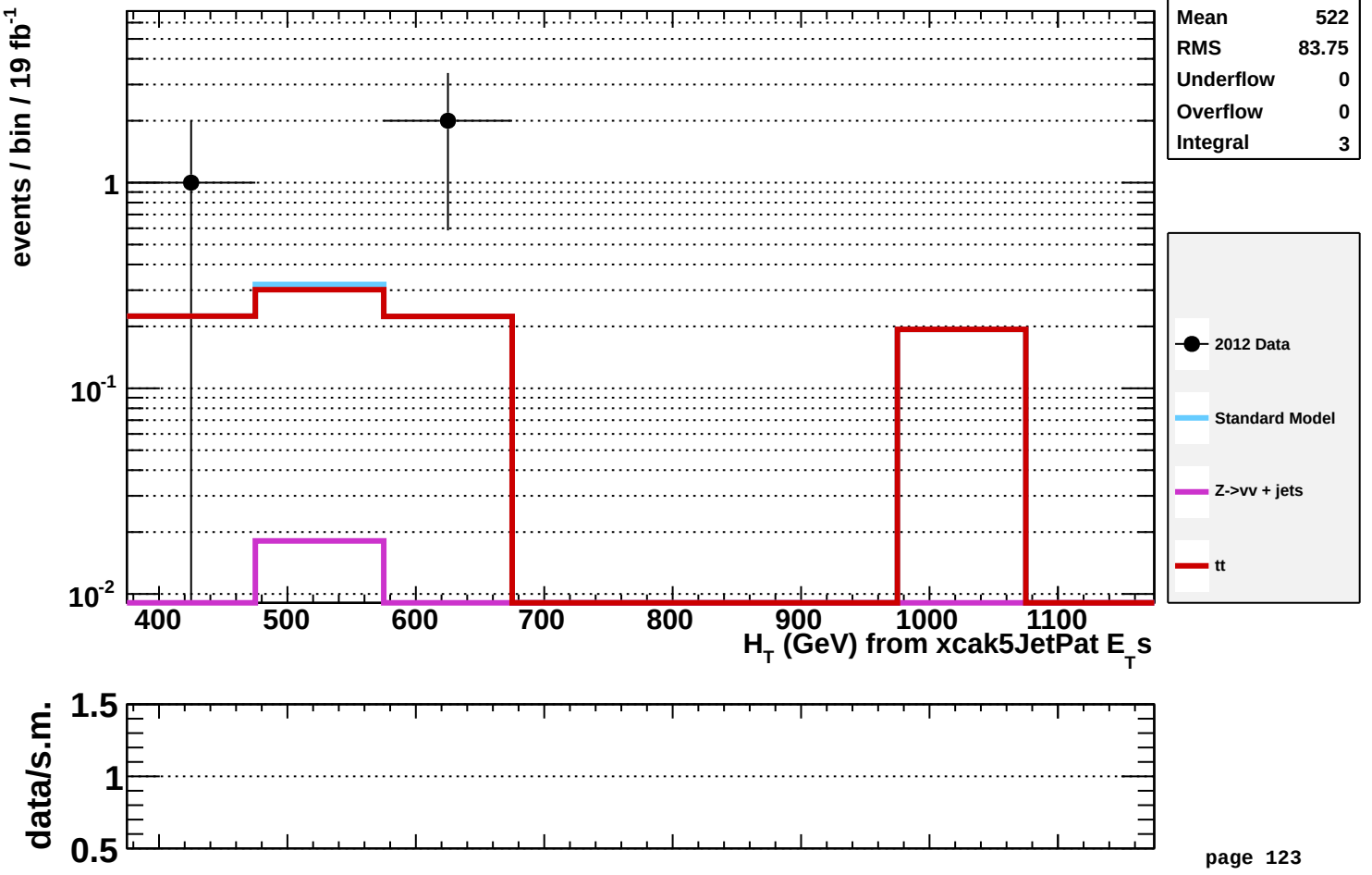

xcak5JetSumEtPat_ge4b
Entries 3
Mean 522
RMS 83.75
Underflow 0
Overflow 0
Integral 3
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
10-2
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5

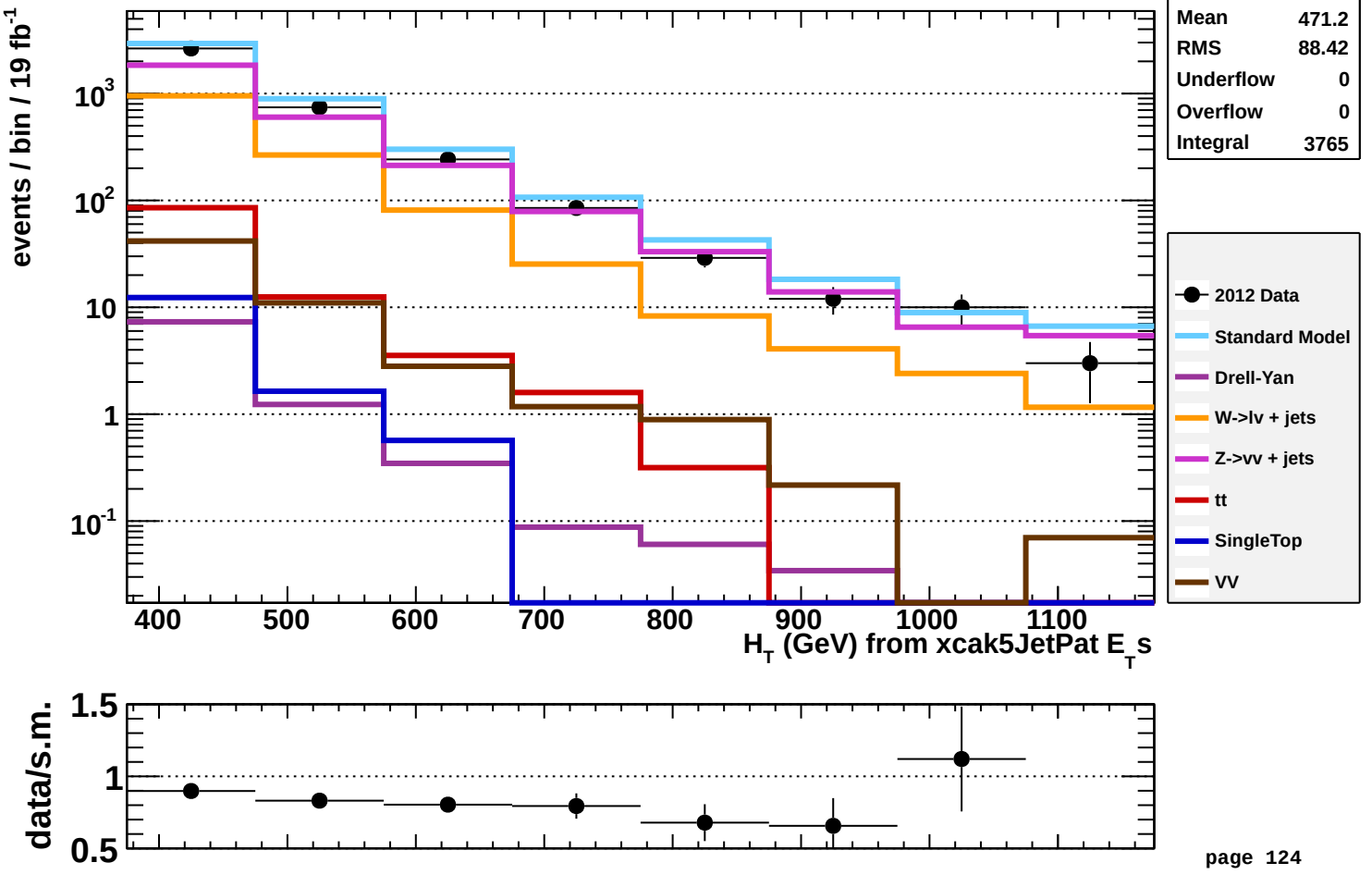

xcak5JetSumEtPat_ge4j_eq0b
Entries 980
Mean 529.1
RMS 130.6
Underflow 0
Overflow 0
Integral 980
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

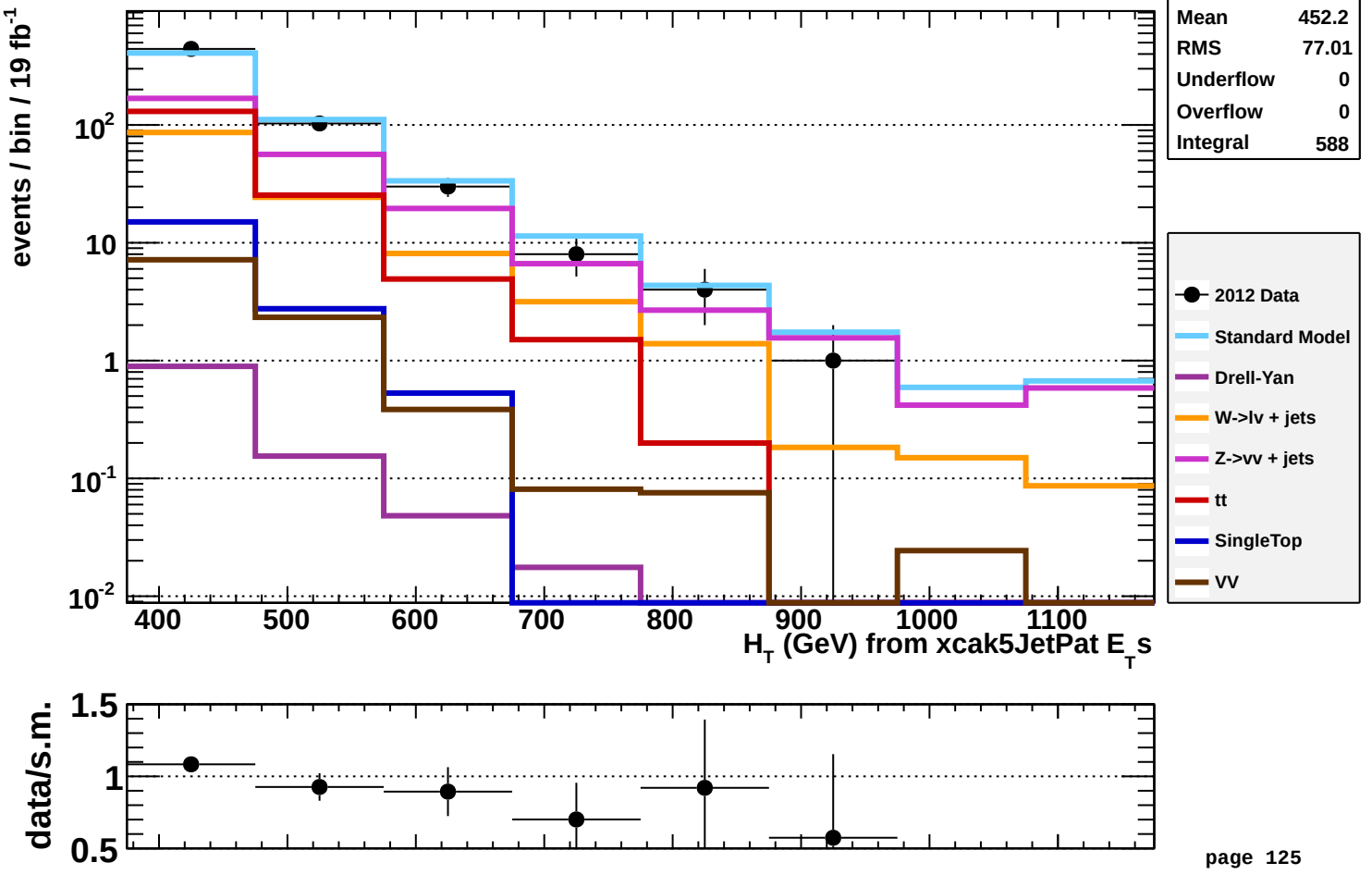

xcak5JetSumEtPat_ge4j_eq1b
Entries 389
Mean 511.4
RMS 120.4
Underflow 0
Overflow 0
Integral 389
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

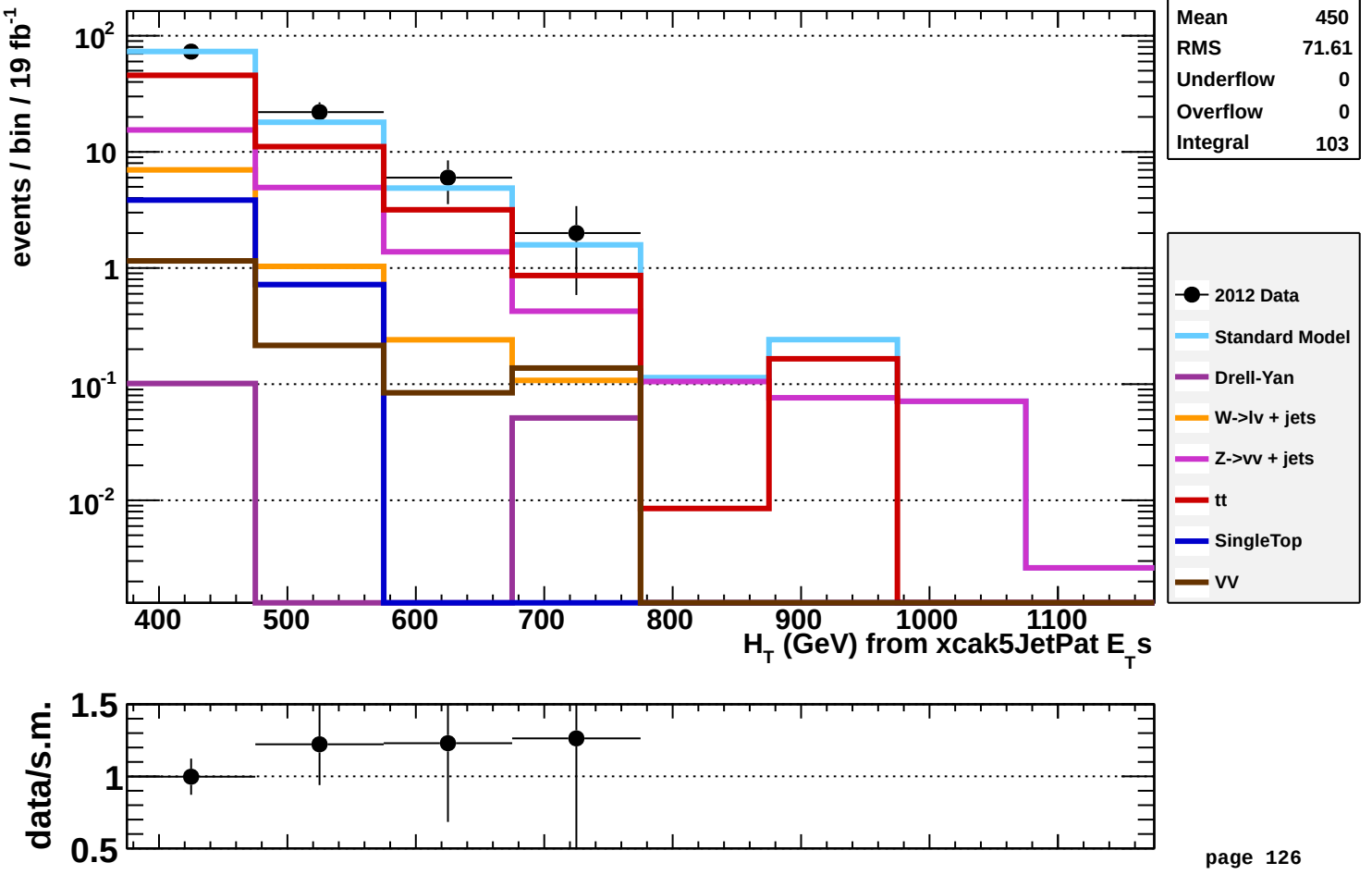

xcak5JetSumEtPat_ge4j_eq2b
Entries 173
Mean 492.1
RMS 98.84
Underflow 0
Overflow 0
Integral 173
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.

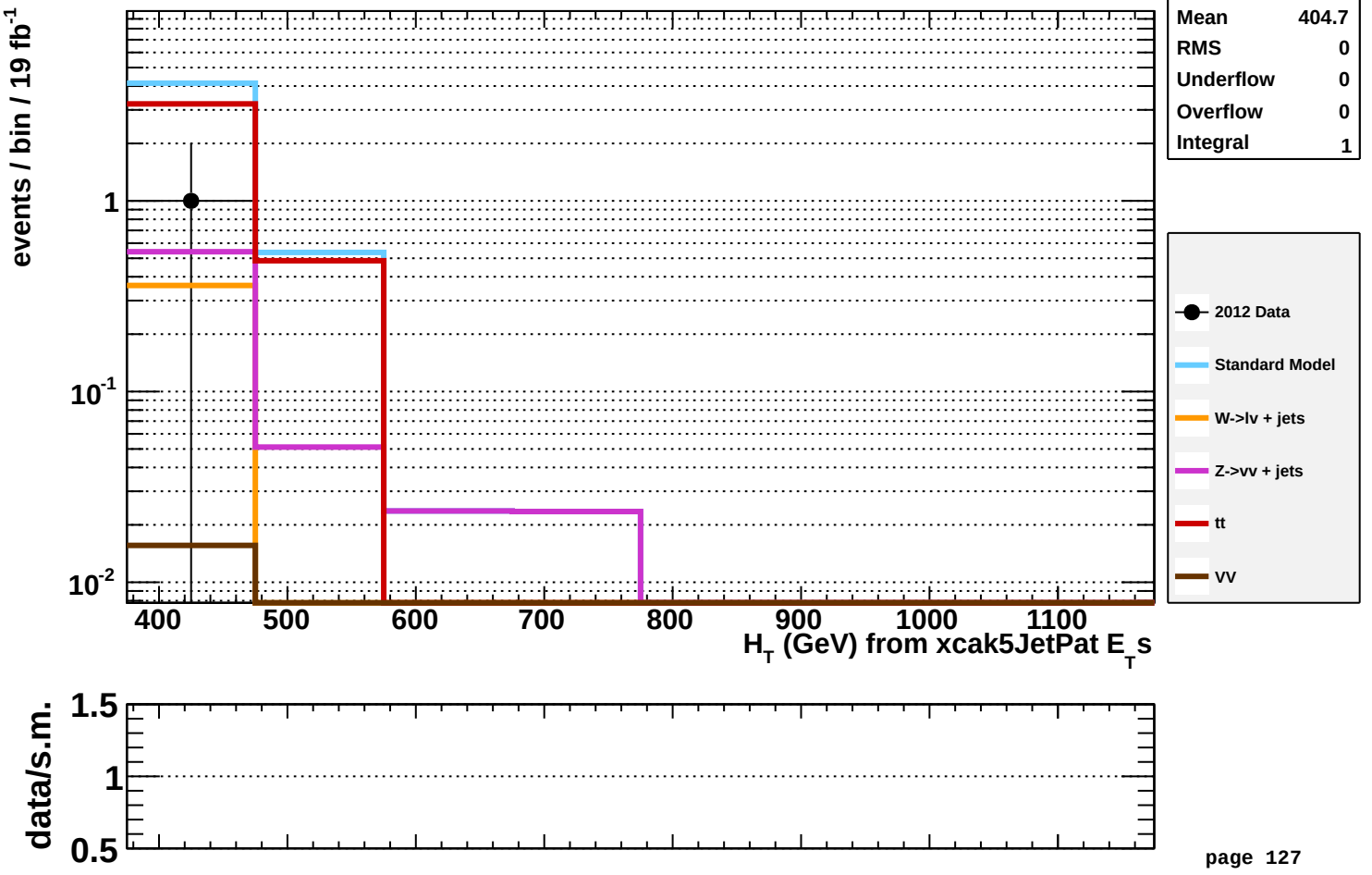

xcak5JetSumEtPat_ge4j_eq3b
Entries 20
Mean 521.4
RMS 98.22
Underflow 0
Overflow 0
Integral 20
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
10
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5


xcak5JetSumEtPat_ge4j_ge4b
Entries 3
Mean 522
RMS 83.75
Underflow 0
Overflow 0
Integral 3
2012 Data
Standard Model
Z->vv + jets
tt
events / bin / 19 fb-1
1
10-1
10-2
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5


xcak5JetSumEtPat_le3j_eq0b
Entries 3765
Mean 471.2
RMS 88.42
Underflow 0
Overflow 0
Integral 3765
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.


xcak5JetSumEtPat_le3j_eq1b
Entries 588
Mean 452.2
RMS 77.01
Underflow 0
Overflow 0
Integral 588
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.


xcak5JetSumEtPat_le3j_eq2b
Entries 103
Mean 450
RMS 71.61
Underflow 0
Overflow 0
Integral 103
2012 Data
Standard Model
Drell-Yan
W->lv + jets
Z->vv + jets
tt
SingleTop
VV
events / bin / 19 fb-1
H_T (GeV) from xcak5JetPat E_T s
data/s.m.


xcak5JetSumEtPat_le3j_eq3b
Entries 1
Mean 404.7
RMS 0
Underflow 0
Overflow 0
Integral 1
2012 Data
Standard Model
W->lv + jets
Z->vv + jets
tt
VV
events / bin / 19 fb-1
1
10-1
10-2
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPat ETs
data/s.m.
1.5
1
0.5

z:	multiplicity	0 <= muonIndicesPat <= 0
A:	multiplicity	0 <= electronIndicesUnmatchedPat <= 0
B:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
C:	deadEcalFilter	xcak5JetPat; dR>0.300 when deltaPhiStar<0.500
D:	value	xcak5JetMhthighPtPatOvermetP4TypeIPF<=1.25
E:	value	CaloRecHitSumPt<=30.00
F:	value	0.55<=xcak5JetAlphaTEtPat
G:	value	0.10<=xcak5JetMaxEmEnergyFractionPat
H:	value	1.00<=hcalLaserEvent2012
I:	value	1.00<=ecalLaserCalibEvent2012

[jetSumPlots1]

K:	value	475.00<=xcak5JetSumEtPat
L:	value	575.00<=xcak5JetSumEtPat
M:	value	675.00<=xcak5JetSumEtPat
N:	value	775.00<=xcak5JetSumEtPat
O:	value	875.00<=xcak5JetSumEtPat
P:	value	975.00<=xcak5JetSumEtPat
Q:	value	1075.00<=xcak5JetSumEtPat

	2012 Data	Standard Mod	Drell-Yan	W->lv + jets	Z->vv + jets	tt	SingleTop	VV	data/s.m.
z:	6688261	8.395(4)e+5	1.240(4)e+4	1.578(2)e+5	8.976(6)e+4	4.764(3)e+5	7.83(2)e+4	2.494(5)e+4	7.967(5)
A:	6680982	8.377(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.753(3)e+5	7.81(2)e+4	2.490(5)e+4	7.976(5)
B:	6680567	8.376(4)e+5	1.236(4)e+4	1.574(2)e+5	8.964(6)e+4	4.752(3)e+5	7.81(2)e+4	2.489(5)e+4	7.975(5)
C:	1463167	2.631(2)e+5	3.82(2)e+3	6.42(1)e+4	4.598(4)e+4	1.213(2)e+5	2.111(9)e+4	6.68(3)e+3	5.561(7)
D:	359924	1.370(1)e+5	2.01(2)e+3	4.482(9)e+4	3.679(4)e+4	4.265(9)e+4	7.96(6)e+3	2.80(2)e+3	2.627(5)
E:	354346	1.361(1)e+5	2.00(2)e+3	4.452(9)e+4	3.653(4)e+4	4.235(9)e+4	7.92(6)e+3	2.78(2)e+3	2.604(5)
F:	6047	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.93(1)
G:	6037	6.53(2)e+3	13.0(8)	1.85(2)e+3	3.69(1)e+3	8.2(1)e+2	71(6)	92(3)	0.92(1)
H:	6037	-	-	-	-	-	-	-	
I:	6022	-	-	-	-	-	-	-	

[jetSumPlots1]

K:	2138	2.40(1)e+3	3.4(3)	626(9)	1415(6)	299(8)	26(4)	32(2)	0.89(2)
L:	807	922(8)	1.0(2)	223(5)	567(4)	111(5)	9(2)	11.5(9)	0.88(3)
M:	310	370(5)	0.4(1)	83(3)	237(3)	43(3)	2.0(10)	5.2(6)	0.84(5)
N:	134	161(3)	0.21(7)	34(2)	105(2)	18(2)	0.7(6)	2.4(4)	0.83(7)
O:	62	73(2)	0.15(6)	15(1)	48(1)	9(1)	0(0)	0.9(2)	0.8(1)
P:	30	34(1)	0.11(5)	7.1(8)	22.8(8)	3.8(9)	-	0.4(1)	0.9(2)
Q:	12	16(1)	4(3)e-2	3.0(5)	10.9(5)	2.0(7)	-	0.2(1)	0.7(2)