sample	nEventsIn	weightIn	lumi
GJets_HT400toinf.puWeight.bTagWeight	9459561	9.75e+06	
GJets_HT200to400.puWeight.bTagWeight	57747147	5.95e+07	
Photon.Run2012A-22Jan2013.jsonWeight	12661036	9.17e+06	
SinglePhotonParked.Run2012B-22Jan2013.jsonWeight	11298492	1.03e+07	
SinglePhotonParked.Run2012C-22Jan2013.jsonWeight	20484103	1.98e+07	
SinglePhotonParked.Run2012D-22Jan2013.jsonWeight	101053432	9.59e+07	

file created at Mon Sep 15 21:51:13 2014

Calculables	
electronIndicesNonIsoPF	pass ptMin & id; fail iso
electronIndicesOtherPF	pass ptMin; fail id
electronIndicesPF	pt>10.0; |eta|<2.5; (2012 Veto)
electronIndicesUnmatchedPF	electronIndicesOtherPF; no dR<0.5 match in ak5JetPFCorrectedP4Pat
jsonWeight	run:ls in cert/Cert_190456-208686_8TeV_22Jan2013ReReco_Collisions12_JSON.txt
lowestUnPrescaledTrigger	lowest unprescaled of HLT_Photon1{50_v{1,2,3,4,5,6,7,8,9,1{0,1,2,3,4,5,6,7,8,9}},
muonIdPog2012LoosePF	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Loose_Muon
muonIdPog2012TightPF	https://twiki.cern.ch/twiki/bin/view/CMSPublic/SWGuideMuonId#Tight_Muon
muonIndicesNonIsoPF	pass ptMin & id; fail iso
muonIndicesOtherPF	pass ptMin; fail id
muonIndicesPF	IdPog2012Tight; pt>10.0 GeV; PfIsolationR04DeltaBCorrected<0.12
photonIndicesOtherPat	pass ptMin; fail id/iso
photonIndicesPat	pT>=25.0 GeV; photonSimpleCutBased2012TightPat
photonIndicesUnmatchedPat	photonIndicesOtherPat; no dR<0.5 match in ak5JetPFCorrectedP4Pat
vertexID	!fake; nd>=5.0; |z|<=24.0 cm; d0<=2.0 cm
vertexIndices	; pass ID
vertexIndicesOther	pass sumPtMin; fail ID
weight	1.bTagWeight.puWeight
weight	1.jsonWeight
xcak5JetCorrectedP4Pat	muonPFDR<0.50; electronPFDR<0.50; photonPatDR<0.50
xcak5JetIndicesOtherPat	pass ptMin; fail jetID or etaMax
xcak5JetIndicesPat	pT>=50.0 GeV; |eta|<3.0; JetIDtight
xcak5JetPFCorrectedP4Pat	muonPFDR<0.50; electronPFDR<0.50; photonPatDR<0.50
xcak5JetPFDeadEcalDRlowPtPat	xcak5JetPFPat; nXtal>=10; cracks checked
xcak5JetPFIndicesBtagged2Pat	(>0.679)
xcak5JetPFIndicesOtherPat	pass ptMin; fail jetID or etaMax
xcak5JetPFIndicesPat	pT>=50.0 GeV; |eta|<3.0;
xcak5JetPFIndiceshighPtPat	pT>=50.0 GeV; |eta|<3.0;
xcak5JetPFIndiceslowPtPat	pT>=30.0 GeV; |eta|<3.0;

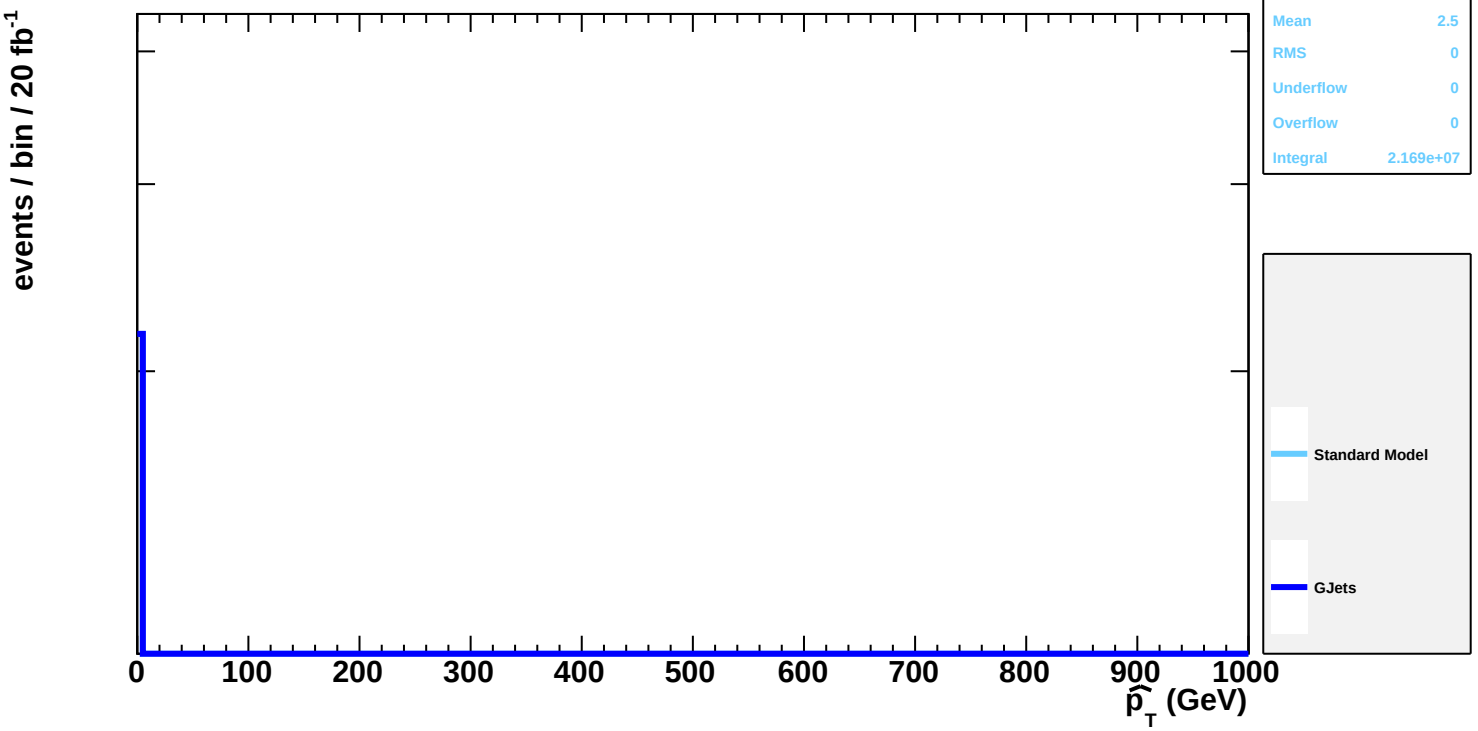
Calculables	(imperfect)	absent	calc	leaf	sltr
	NONE				

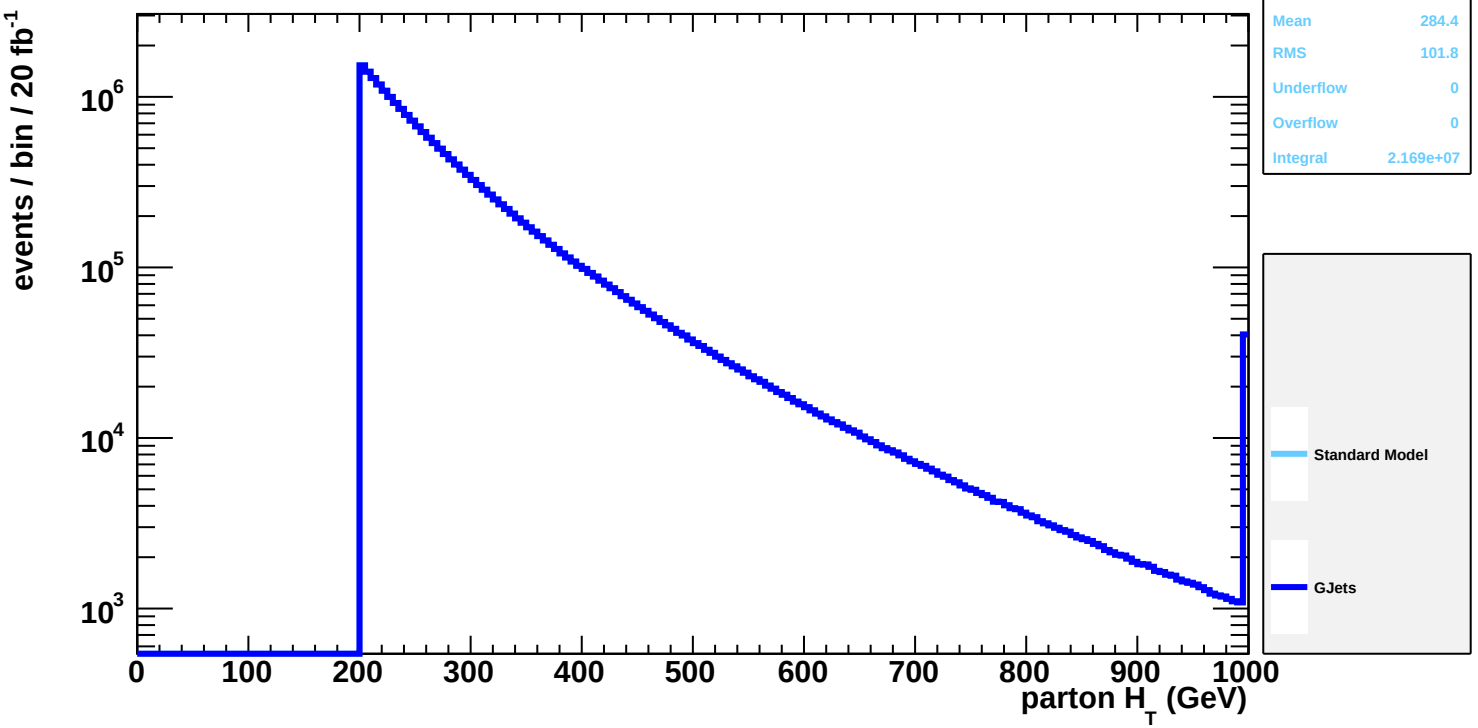
| a: master master

	Data	Standard Model	GJets	data/s.m.
a:	135218985	2.1686(3)e+7	2.1686(3)e+7	6.2352(10)

a:	master	master
b:	l1Filter	L1Tech_BPTX_plus_AND_minus.v0
c:	physicsDeclaredFilter	physicsDeclaredFilter
d:	value	lowestUnPrescaledTrigger
e:	lowestUnPrescaledTriggerFilter	lowest unprescaled of triggers in calculable

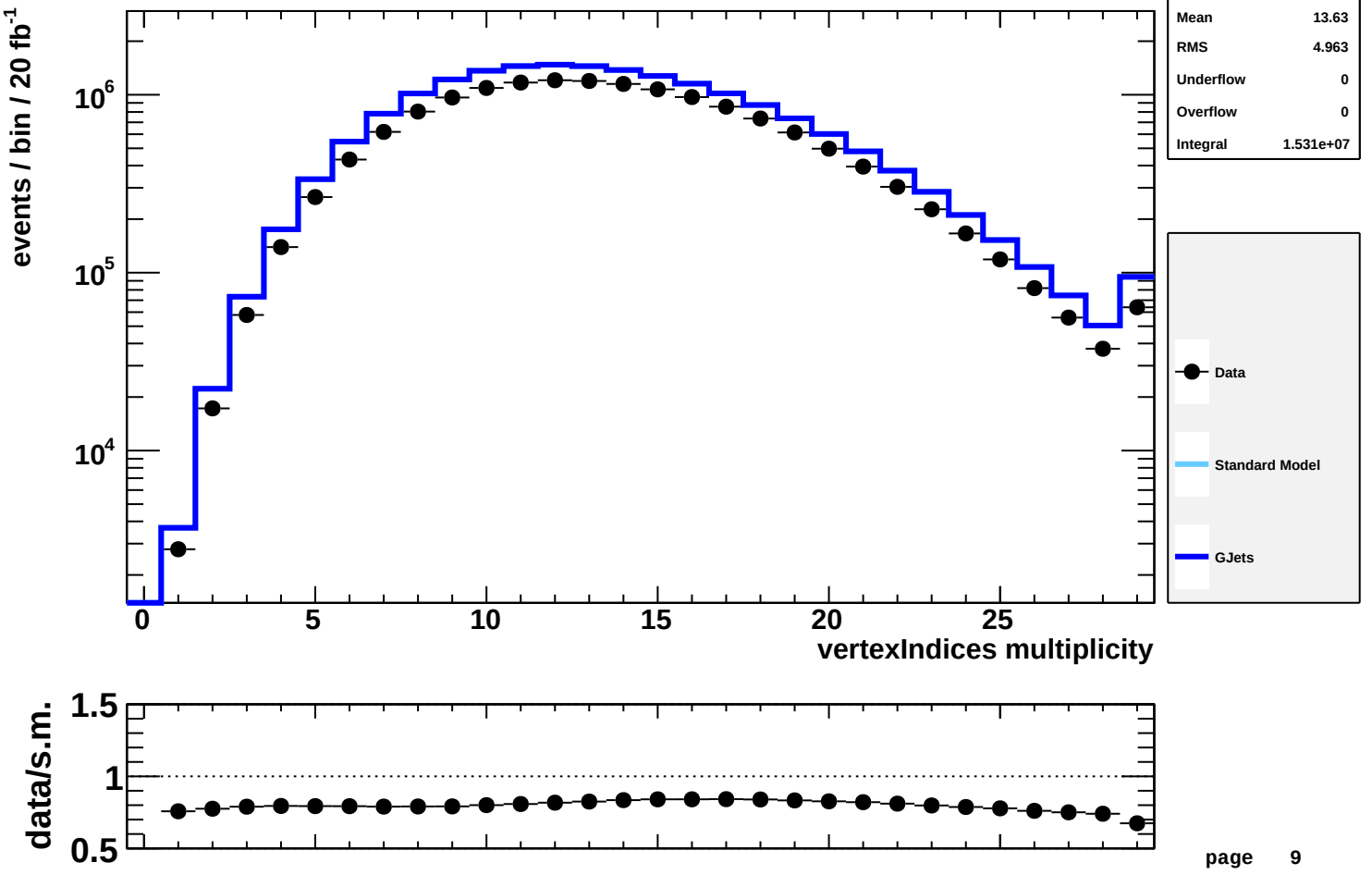
	Data	Standard Model	GJets	data/s.m.
a:	135218985	2.1686(3)e+7	2.1686(3)e+7	6.2352(10)
b:	135124590	-	-	
c:	135022364	-	-	
d:	135022364	-	-	
e:	17726400	-	-	


genpthat
Entries 6.720671e+07
Mean 2.5
RMS 0
Underflow 0
Overflow 0
Integral 2.169e+07
Standard Model
GJets
events / bin / 20 fb-1
0
100
200
300
400
500
600
700
800
900
1000
p̂T (GeV)


genPartonHT
Entries 6.720671e+07
Mean 284.4
RMS 101.8
Underflow 0
Overflow 0
Integral 2.169e+07
Standard Model
GJets
events / bin / 20 fb-1
parton HT (GeV)
10^6
10^5
10^4
10^3
0
100
200
300
400
500
600
700
800
900
1000

a:	master	master
b:	l1Filter	L1Tech_BPTX_plus_AND_minus.v0
c:	physicsDeclaredFilter	physicsDeclaredFilter
d:	value	lowestUnPrescaledTrigger
e:	lowestUnPrescaledTriggerFilter	lowest unprescaled of triggers in calculable
f:	monster	<=10 tracks or >0.25 good fraction
g:	hbheNoise	hbheNoise
h:	value	beamHaloCSCTightHaloId<=0.00
i:	value	1.00<=trackingFailureFilterFlag
j:	value	1.00<=hcalLaserEventFilterFlag
k:	value	1.00<=ecalDeadCellTPFilterFlag
l:	value	1.00<=eeBadScFilterFlag
m:	value	1.00<=inconsistentMuonPFCandidateFilterFlag
n:	value	1.00<=greedyMuonPFCandidateFilterFlag
o:	multiplicity	0 <= singleIsolatedTrack <= 0

	Data	Standard Model	GJets	data/s.m.
a:	135218985	2.1686(3)e+7	2.1686(3)e+7	6.2352(10)
b:	135124590	-	-	
c:	135022364	-	-	
d:	135022364	-	-	
e:	17726400	-	-	
f:	17726400	2.1686(3)e+7	2.1686(3)e+7	0.8174(2)
g:	17697532	-	-	
h:	17588310	2.1683(3)e+7	2.1683(3)e+7	0.8112(2)
i:	17586994	2.1683(3)e+7	2.1683(3)e+7	0.8111(2)
j:	17586994	-	-	
k:	17570862	2.1657(3)e+7	2.1657(3)e+7	0.8113(2)
l:	17570800	2.1657(3)e+7	2.1657(3)e+7	0.8113(2)
m:	17569680	2.1656(3)e+7	2.1656(3)e+7	0.8113(2)
n:	17569161	2.1656(3)e+7	2.1656(3)e+7	0.8113(2)
o:	15314330	1.8783(3)e+7	1.8783(3)e+7	0.8153(2)

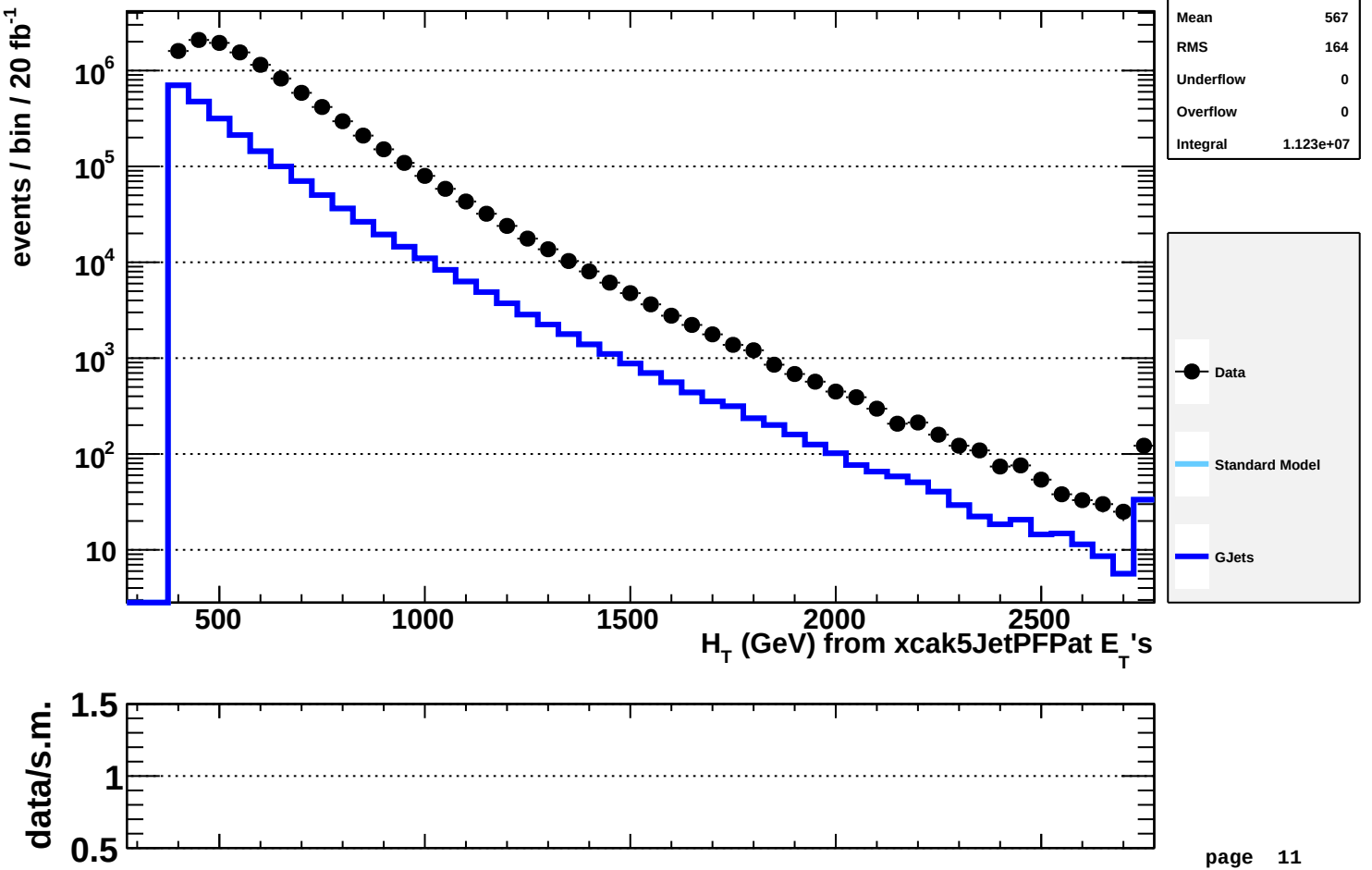

vertexIndicesMultiplicity
Entries 1.531433e+07
Mean 13.63
RMS 4.963
Underflow 0
Overflow 0
Integral 1.531e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
10^6
10^5
10^4
0
5
10
15
20
25
vertexIndices multiplicity
data/s.m.
1.5
1
0.5

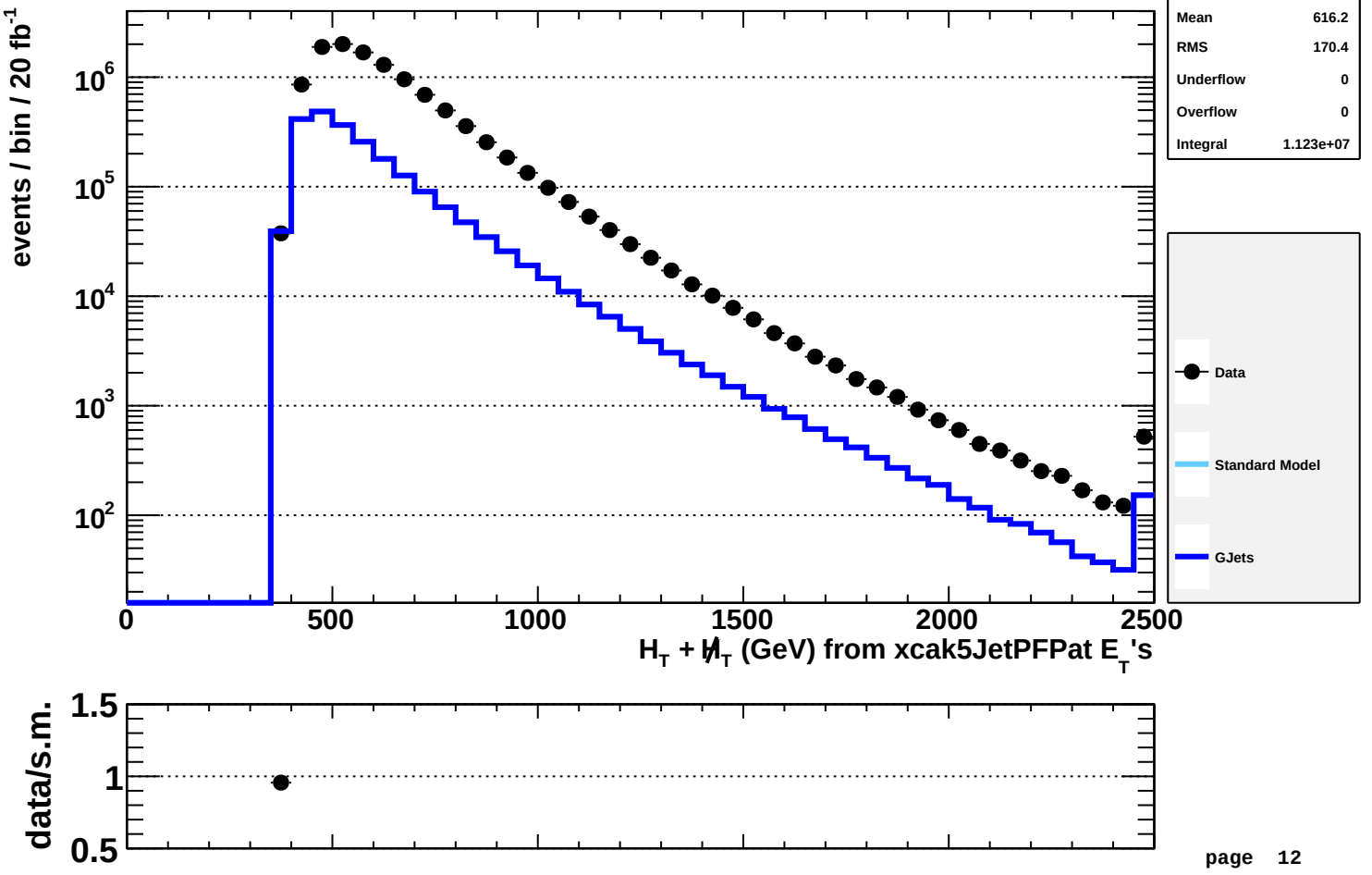
d:	value	lowestUnPrescaledTrigger
e:	lowestUnPrescaledTriggerFilter	lowest unprescaled of triggers in calculable
f:	monster	<=10 tracks or >0.25 good fraction
g:	hbheNoise	hbheNoise
h:	value	beamHaloCSCTightHaloId<=0.00
i:	value	1.00<=trackingFailureFilterFlag
j:	value	1.00<=hcalLaserEventFilterFlag
k:	value	1.00<=ecalDeadCellTPFilterFlag
l:	value	1.00<=eeBadScFilterFlag
m:	value	1.00<=inconsistentMuonPFCandidateFilterFlag
n:	value	1.00<=greedyMuonPFCandidateFilterFlag
o:	multiplicity	0 <= singleIsolatedTrack <= 0
p:	multiplicity	1 <= vertexIndices
q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
t:	value	375.00<=xcak5JetPFSumEtPat

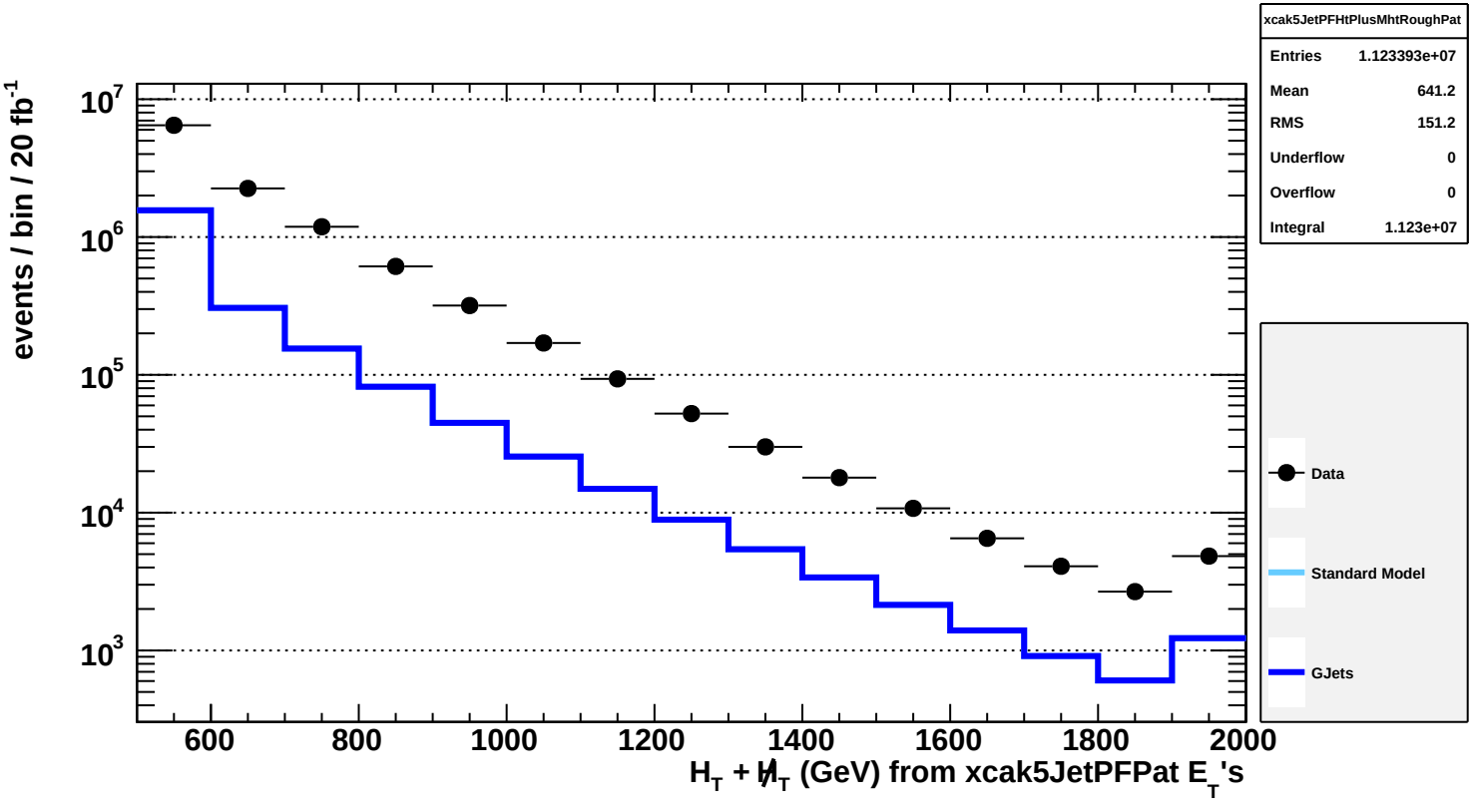
[jetSumPlots]

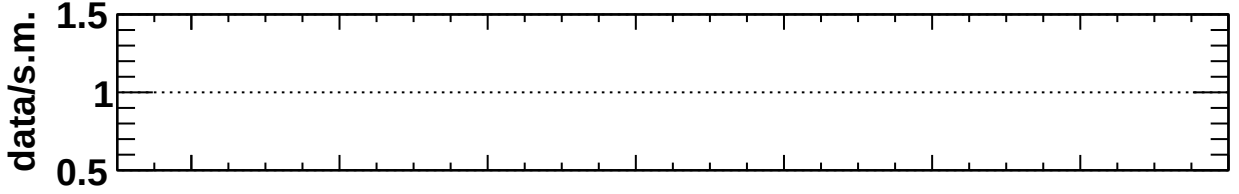
	Data	Standard Model	GJets	data/s.m.
d:	135022364	-	-	
e:	17726400	-	-	
f:	17726400	2.1686(3)e+7	2.1686(3)e+7	0.8174(2)
g:	17697532	-	-	
h:	17588310	2.1683(3)e+7	2.1683(3)e+7	0.8112(2)
i:	17586994	2.1683(3)e+7	2.1683(3)e+7	0.8111(2)
j:	17586994	-	-	
k:	17570862	2.1657(3)e+7	2.1657(3)e+7	0.8113(2)
l:	17570800	2.1657(3)e+7	2.1657(3)e+7	0.8113(2)
m:	17569680	2.1656(3)e+7	2.1656(3)e+7	0.8113(2)
n:	17569161	2.1656(3)e+7	2.1656(3)e+7	0.8113(2)
o:	15314330	1.8783(3)e+7	1.8783(3)e+7	0.8153(2)
p:	15314330	1.8783(3)e+7	1.8783(3)e+7	0.8153(2)
q:	14291023	1.3787(2)e+7	1.3787(2)e+7	1.0366(3)
r:	12528834	6.315(1)e+6	6.315(1)e+6	1.9840(7)
s:	12166027	6.113(1)e+6	6.113(1)e+6	1.9901(7)
t:	11233931	2.2154(8)e+6	2.2154(8)e+6	5.071(2)

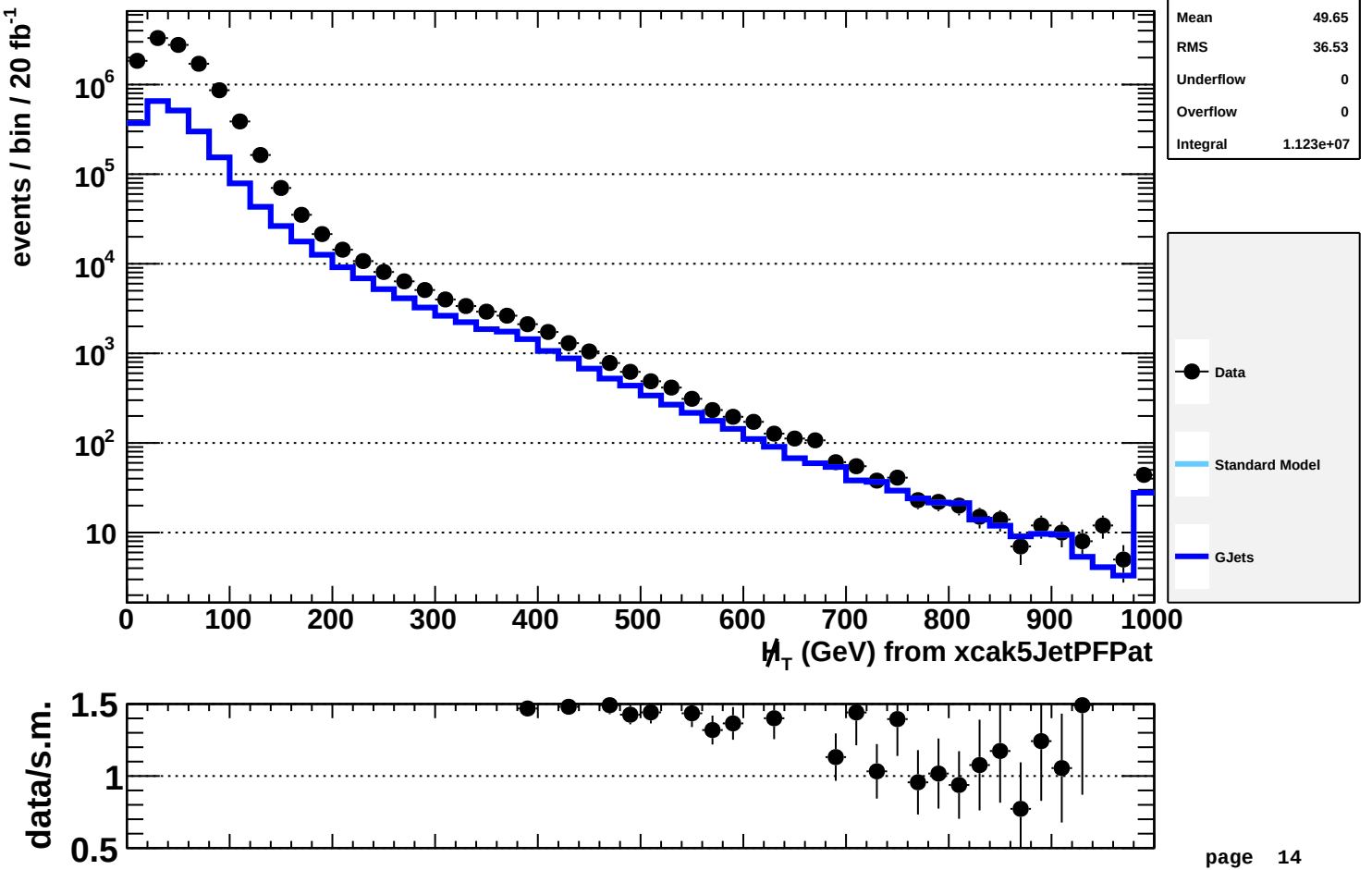
[jetSumPlots]

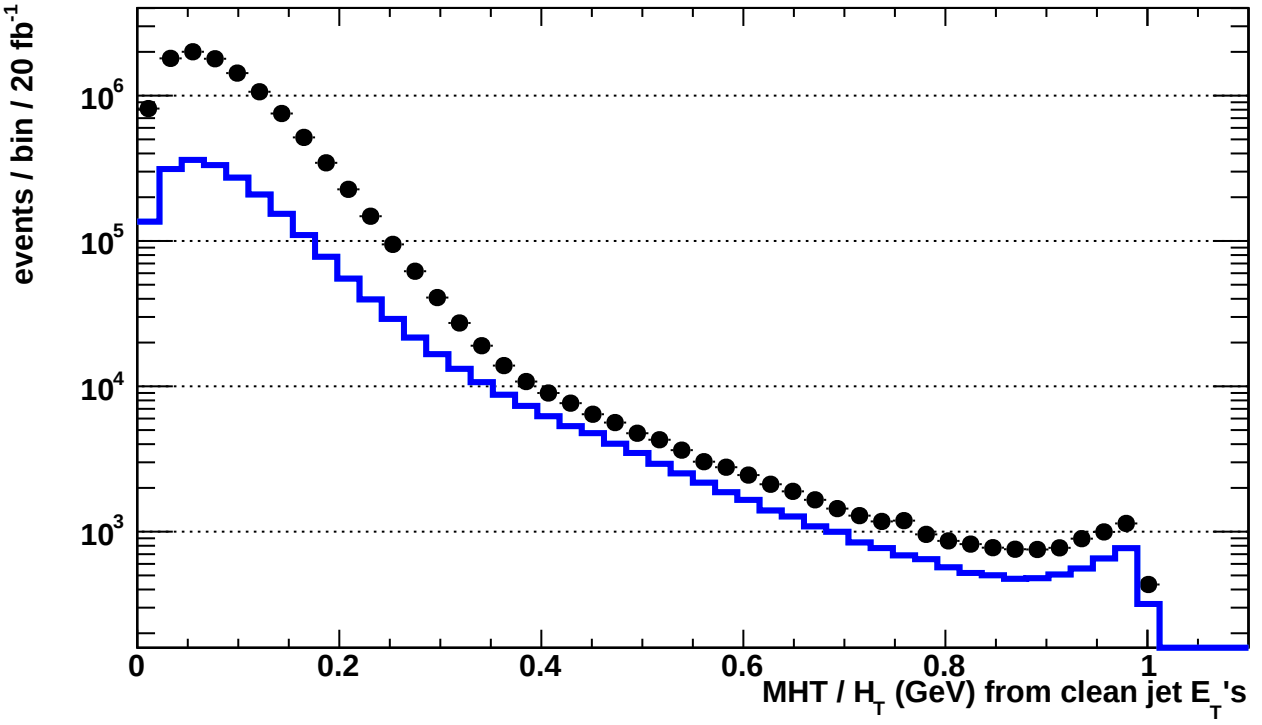

xcak5JetPFHtPat
Entries 1.123393e+07
Mean 567
RMS 164
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
10^6
10^5
10^4
10^3
10^2
10
500
1000
1500
2000
2500
HT (GeV) from xcak5JetPFPat ET's
data/s.m.
1.5
1
0.5


xcak5JetPFHtPlusMhtPat
Entries 1.123393e+07
Mean 616.2
RMS 170.4
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
10^6
10^5
10^4
10^3
10^2
0
500
1000
1500
2000
2500
H_T + /H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.
1.5
1
0.5


xcak5JetPFHtPlusMhtRoughPat
Entries 1.123393e+07
Mean 641.2
RMS 151.2
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
10^7
10^6
10^5
10^4
10^3
600
800
1000
1200
1400
1600
1800
2000
H_T + /H_T (GeV) from xcak5JetPFPat E_T's


data/s.m.
1.5
1
0.5


xcak5JetPFMhtPat
Entries 1.123393e+07
Mean 49.65
RMS 36.53
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
10^6
10^5
10^4
10^3
10^2
10
0
100
200
300
400
500
600
700
800
900
1000
H_T (GeV) from xcak5JetPFPat
data/s.m.
1.5
1
0.5

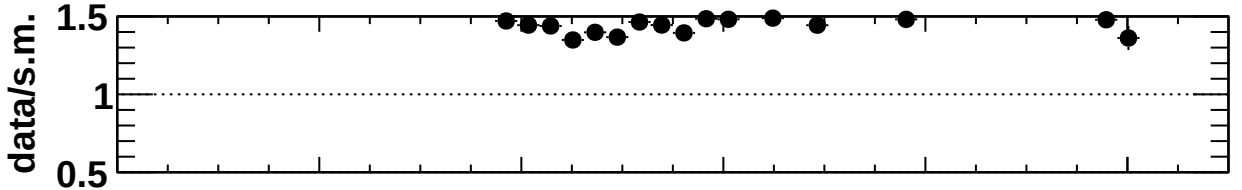


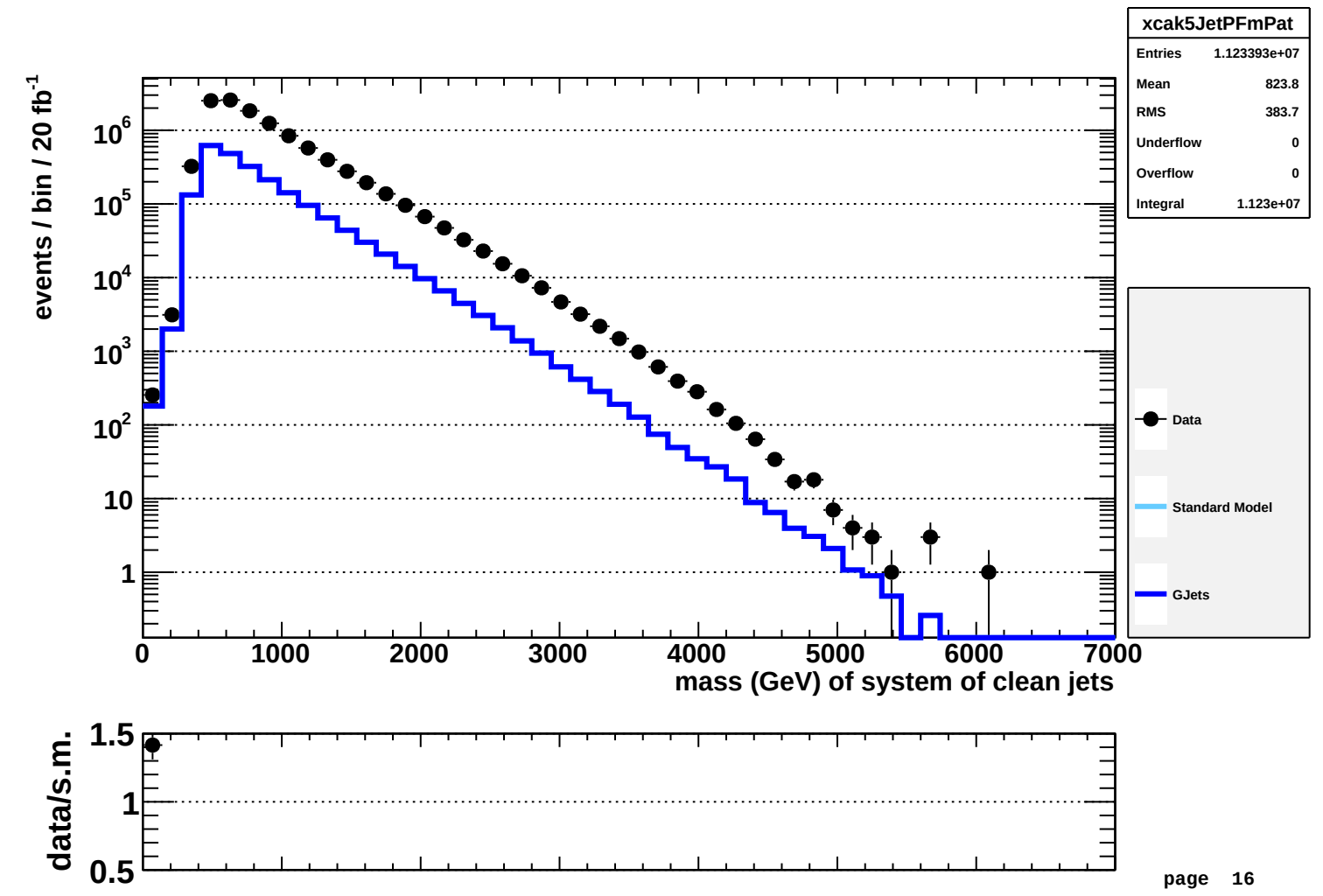
xcak5JetPFmHtOverHtPat	
Entries	1.123393e+07
Mean	0.0928
RMS	0.07133
Underflow	0
Overflow	0
Integral	1.123e+07

Data

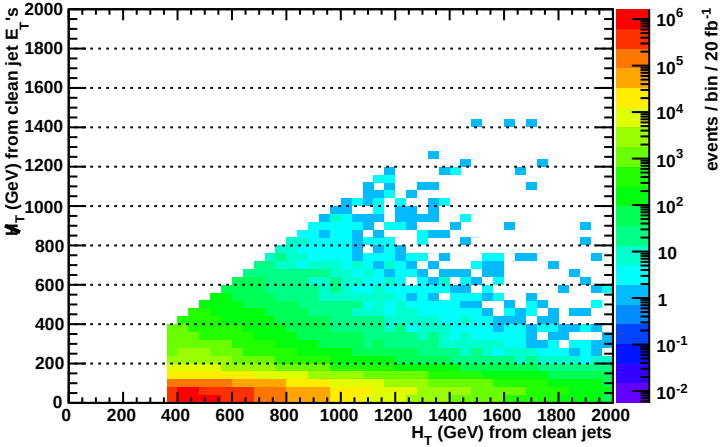
Standard Model

GJets

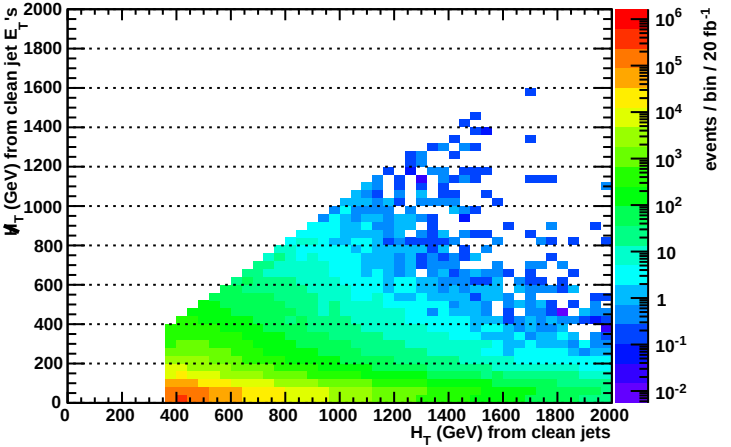



xcak5JetPFmPat
Entries 1.123393e+07
Mean 823.8
RMS 383.7
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
mass (GeV) of system of clean jets
data/s.m.

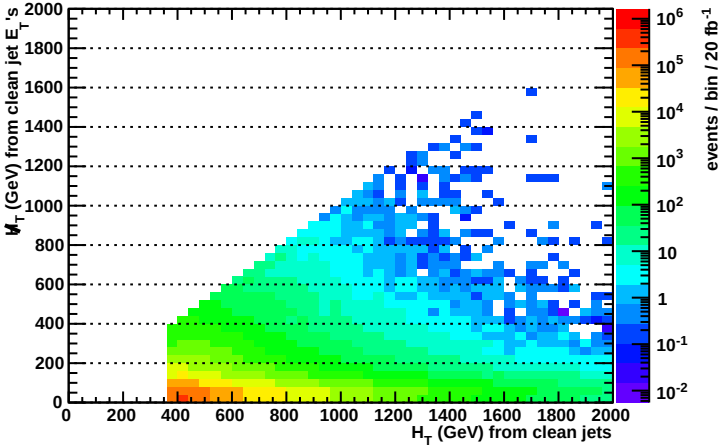
Data

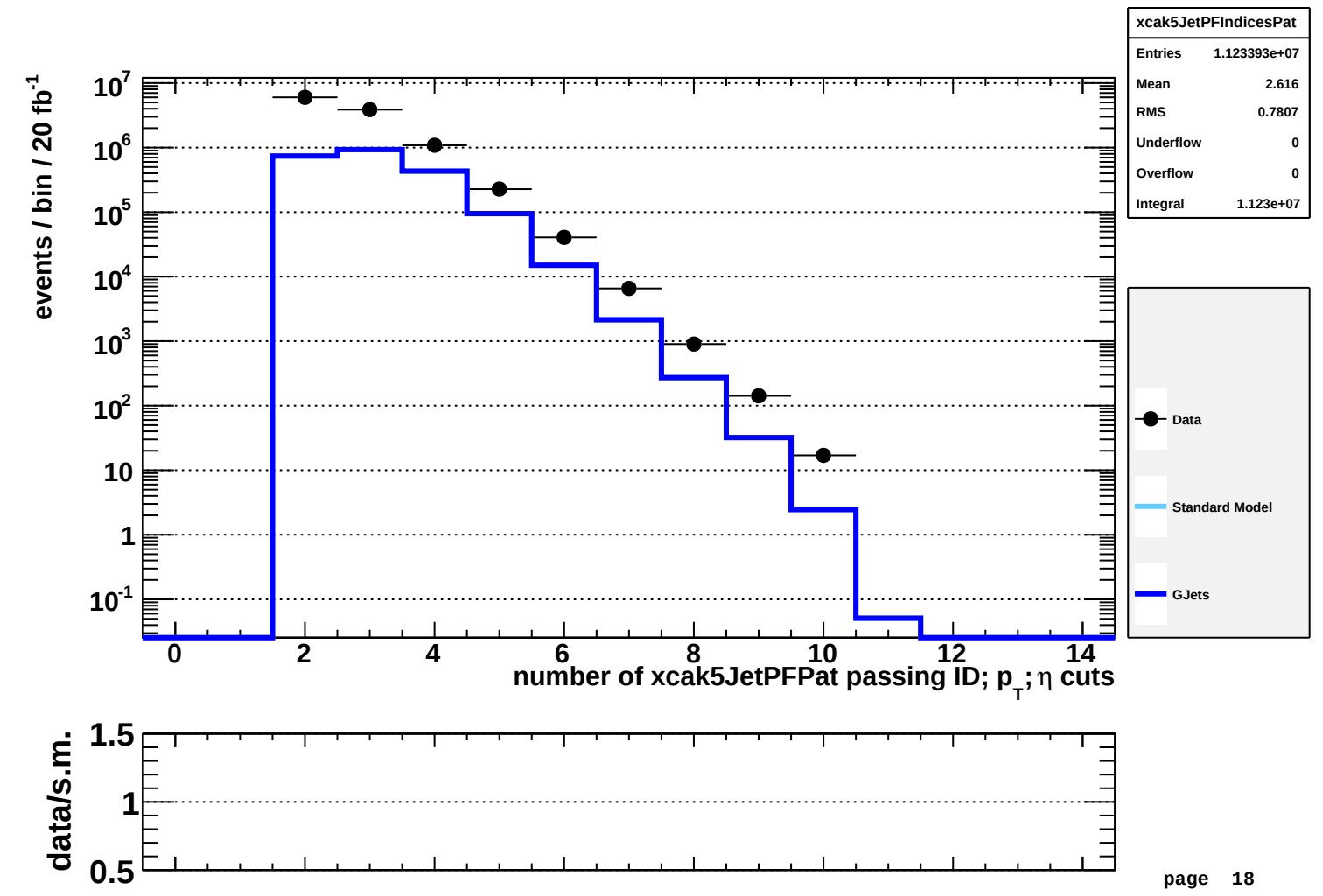


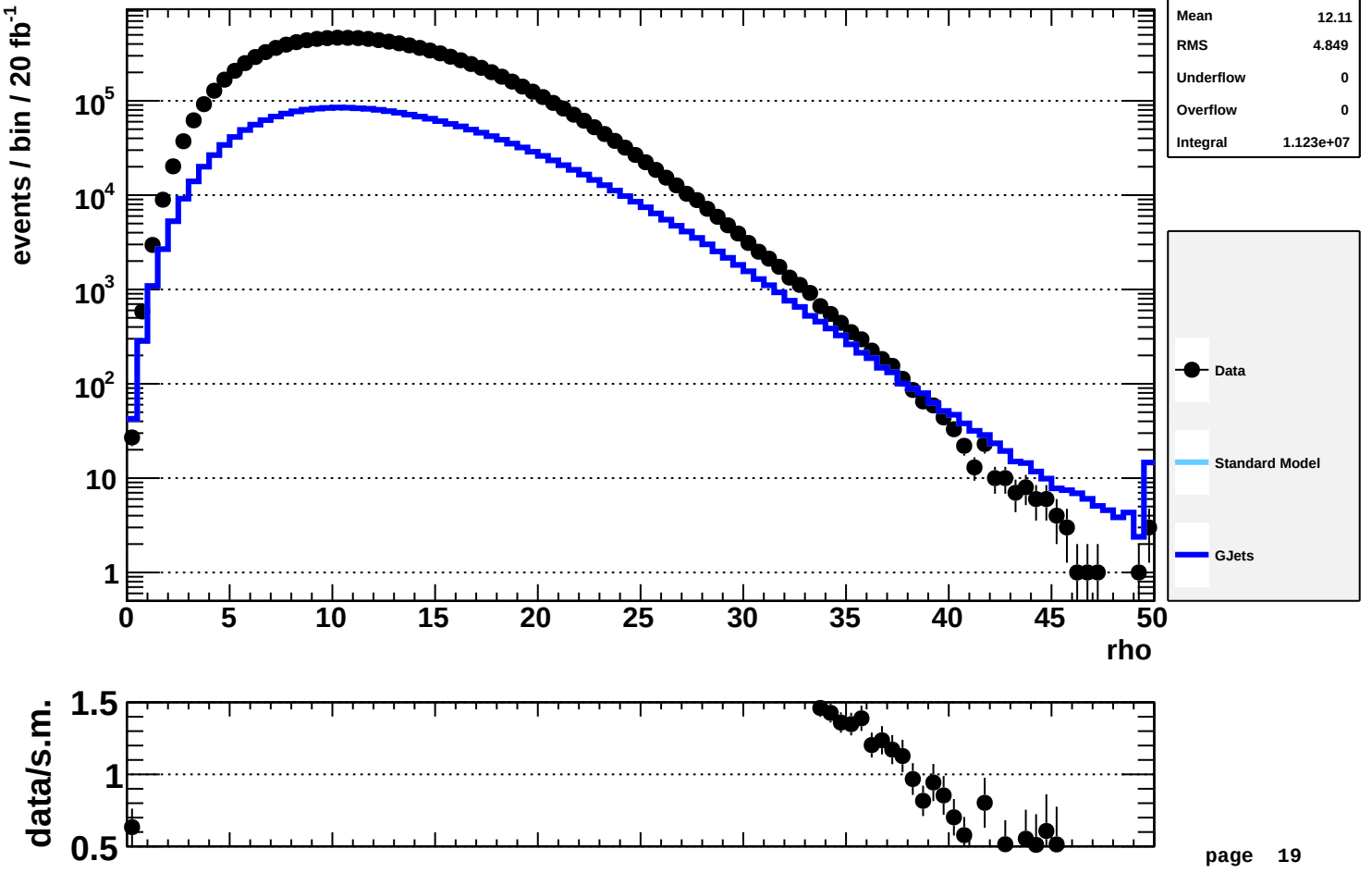
Standard Model



GJets

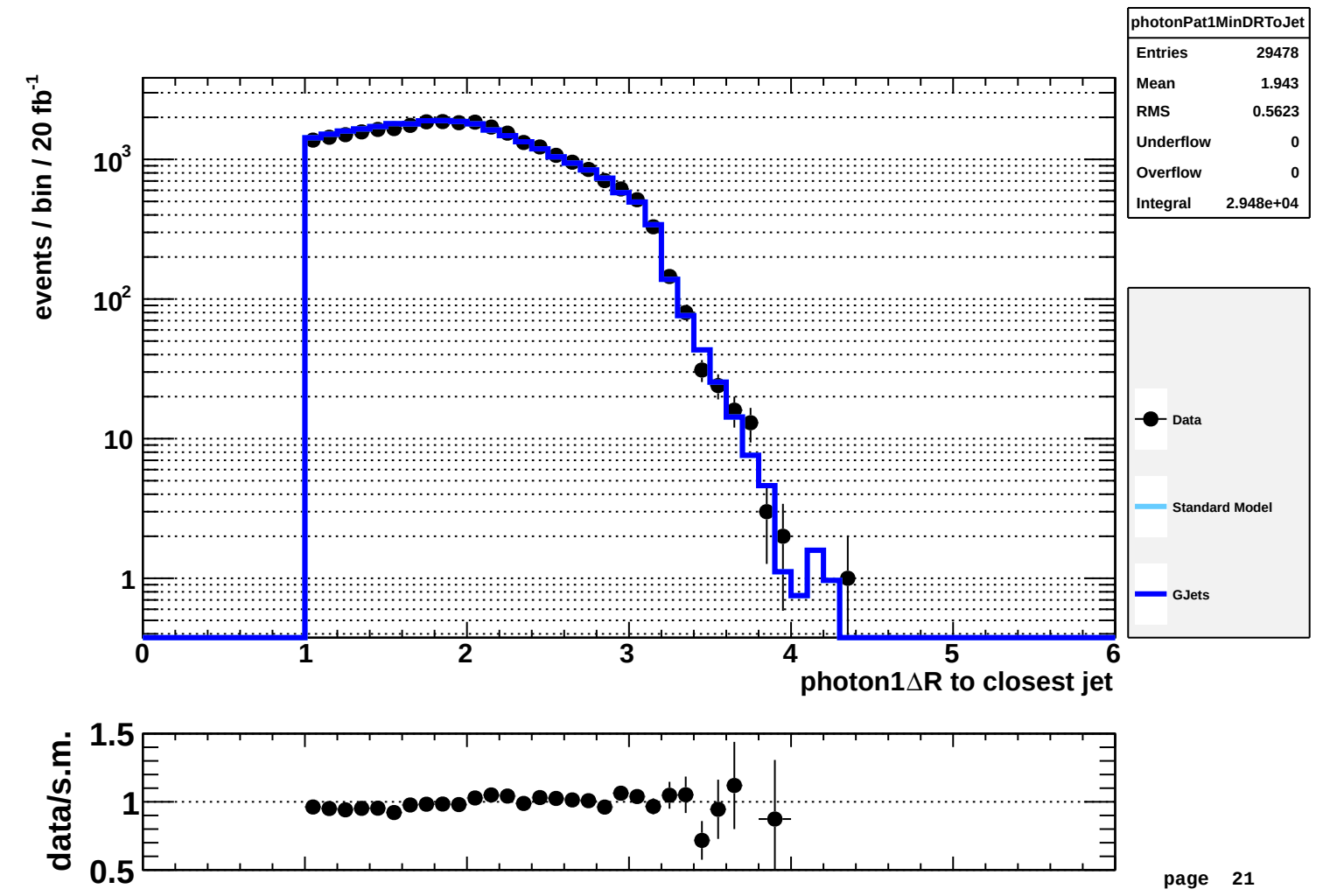



xcak5JetPFIndicesPat
Entries 1.123393e+07
Mean 2.616
RMS 0.7807
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

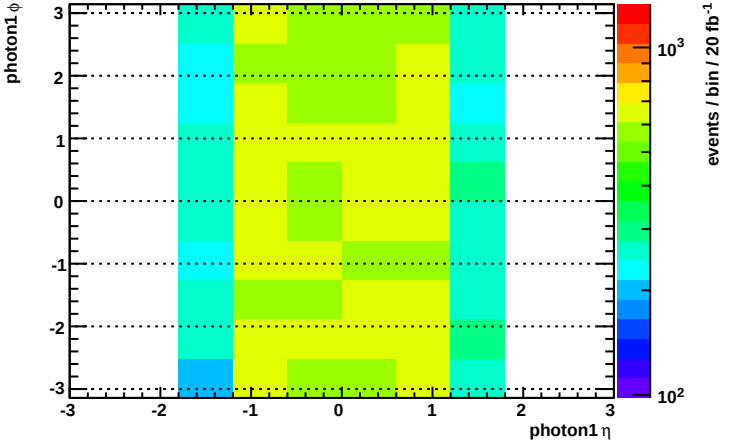

rho
Entries 1.123393e+07
Mean 12.11
RMS 4.849
Underflow 0
Overflow 0
Integral 1.123e+07
Data
Standard Model
GJets
events / bin / 20 fb-1
rho
data/s.m.

q:	jetPtSelector	xcak5JetPFPat; pT[index[0]]>=100.0 GeV
r:	jetPtSelector	xcak5JetPFPat; pT[index[1]]>=100.0 GeV
s:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
t:	value	375.00<=xcak5JetPFSumEtPat
[jetSumPlots]		
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
y:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
z:	multiplicity	0 <= electronIndicesPF <= 0
A:	multiplicity	0 <= muonIndicesPF <= 0
B:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
C:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
D:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
E:	pt	165.00<=photonP4Pat[i[0]].pt; photonIndicesPat
F:	absEta	0.00<=photonP4Pat[i[0]].absEta<=1.44; photonIndicesPat
G:	DeltaRGreaterSelector	xcak5JetPFPat; DR(photonPat[i[0]], jet) > 1.00
H:	multiplicity	1 <= photonIndicesPat <= 1

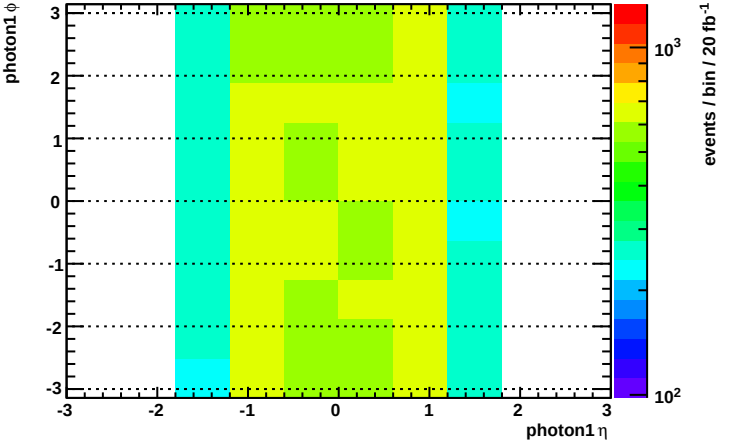
	Data	Standard Model	GJets	data/s.m.
q:	14291023	1.3787(2)e+7	1.3787(2)e+7	1.0366(3)
r:	12528834	6.315(1)e+6	6.315(1)e+6	1.9840(7)
s:	12166027	6.113(1)e+6	6.113(1)e+6	1.9901(7)
t:	11233931	2.2154(8)e+6	2.2154(8)e+6	5.071(2)
[jetSumPlots]				
v:	11233931	2.2154(8)e+6	2.2154(8)e+6	5.071(2)
w:	11055260	2.1843(8)e+6	2.1843(8)e+6	5.061(2)
x:	11052859	2.1838(8)e+6	2.1838(8)e+6	5.061(2)
y:	11049975	2.1832(8)e+6	2.1832(8)e+6	5.061(2)
z:	11015040	2.1413(8)e+6	2.1413(8)e+6	5.144(2)
A:	11009428	2.1411(8)e+6	2.1411(8)e+6	5.142(2)
B:	11008013	2.1407(8)e+6	2.1407(8)e+6	5.142(2)
C:	11007336	2.1400(8)e+6	2.1400(8)e+6	5.144(2)
D:	3388782	6.377(4)e+5	6.377(4)e+5	5.314(5)
E:	39894	3.98(1)e+4	3.98(1)e+4	1.003(6)
F:	34809	3.517(10)e+4	3.517(10)e+4	0.990(6)
G:	29593	2.988(9)e+4	2.988(9)e+4	0.990(6)
H:	29478	2.987(9)e+4	2.987(9)e+4	0.987(6)


photonPat1MinDRToJet
Entries 29478
Mean 1.943
RMS 0.5623
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
photon1ΔR to closest jet
data/s.m.

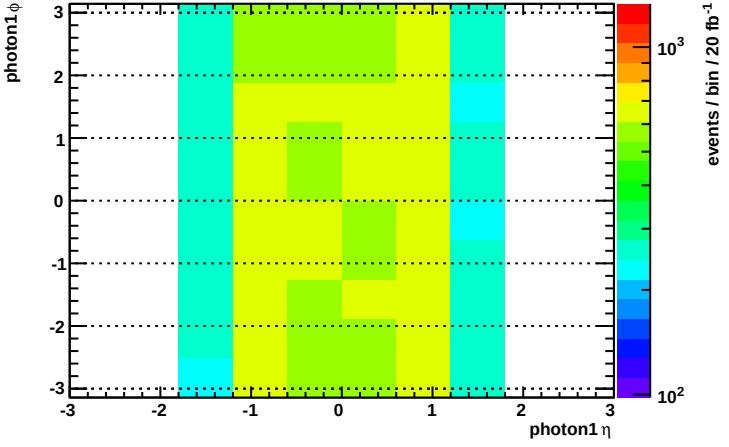
Data

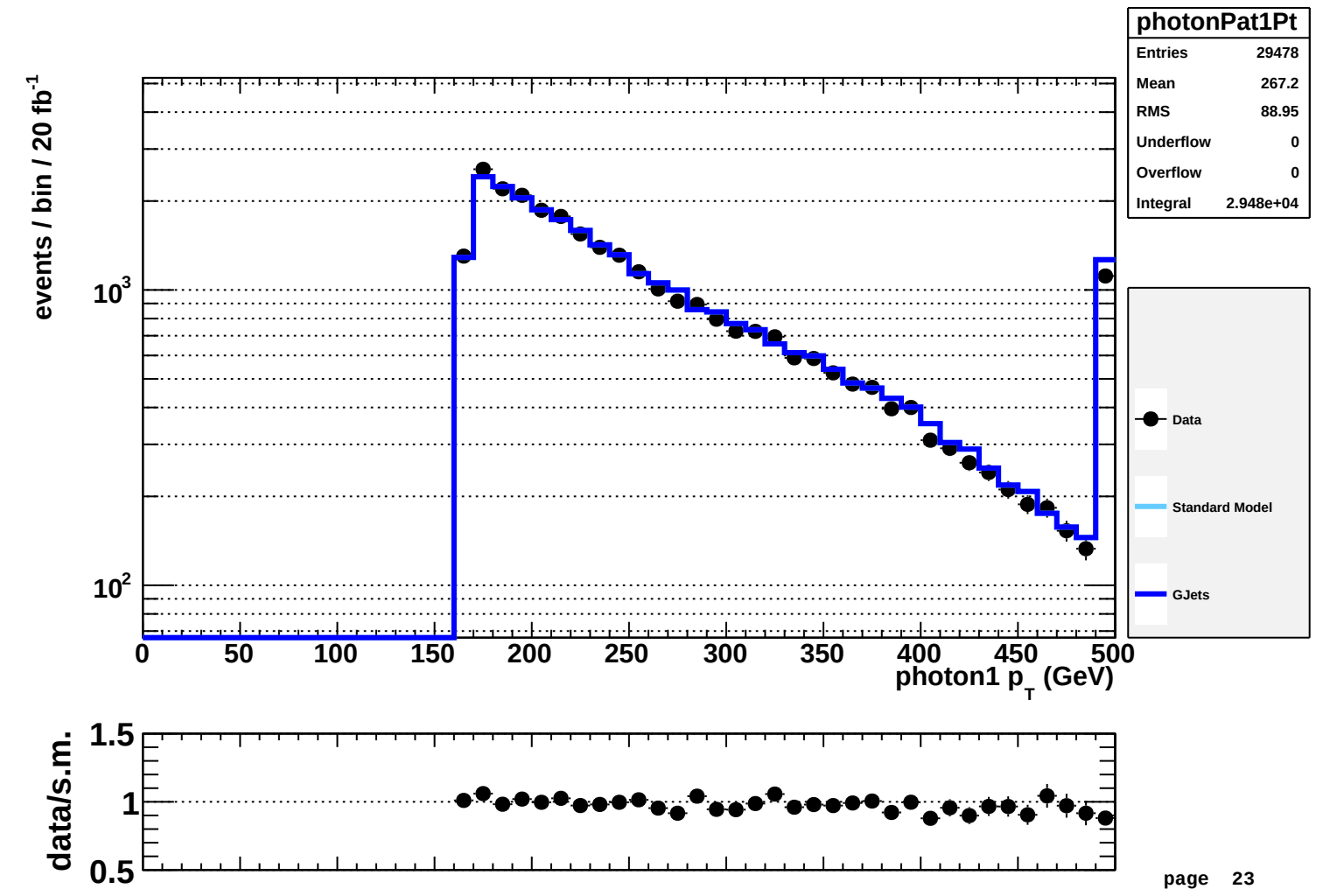


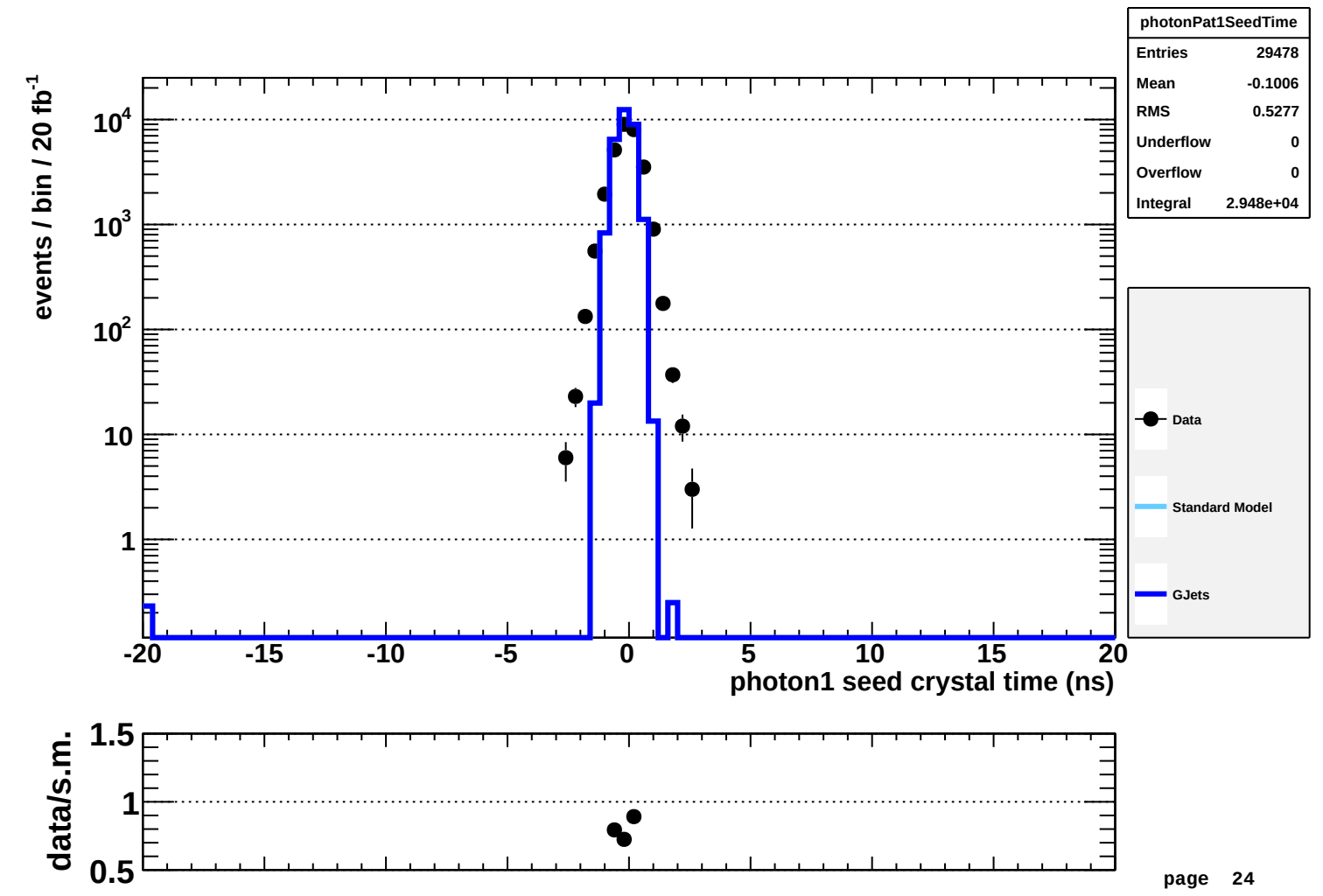
Standard Model

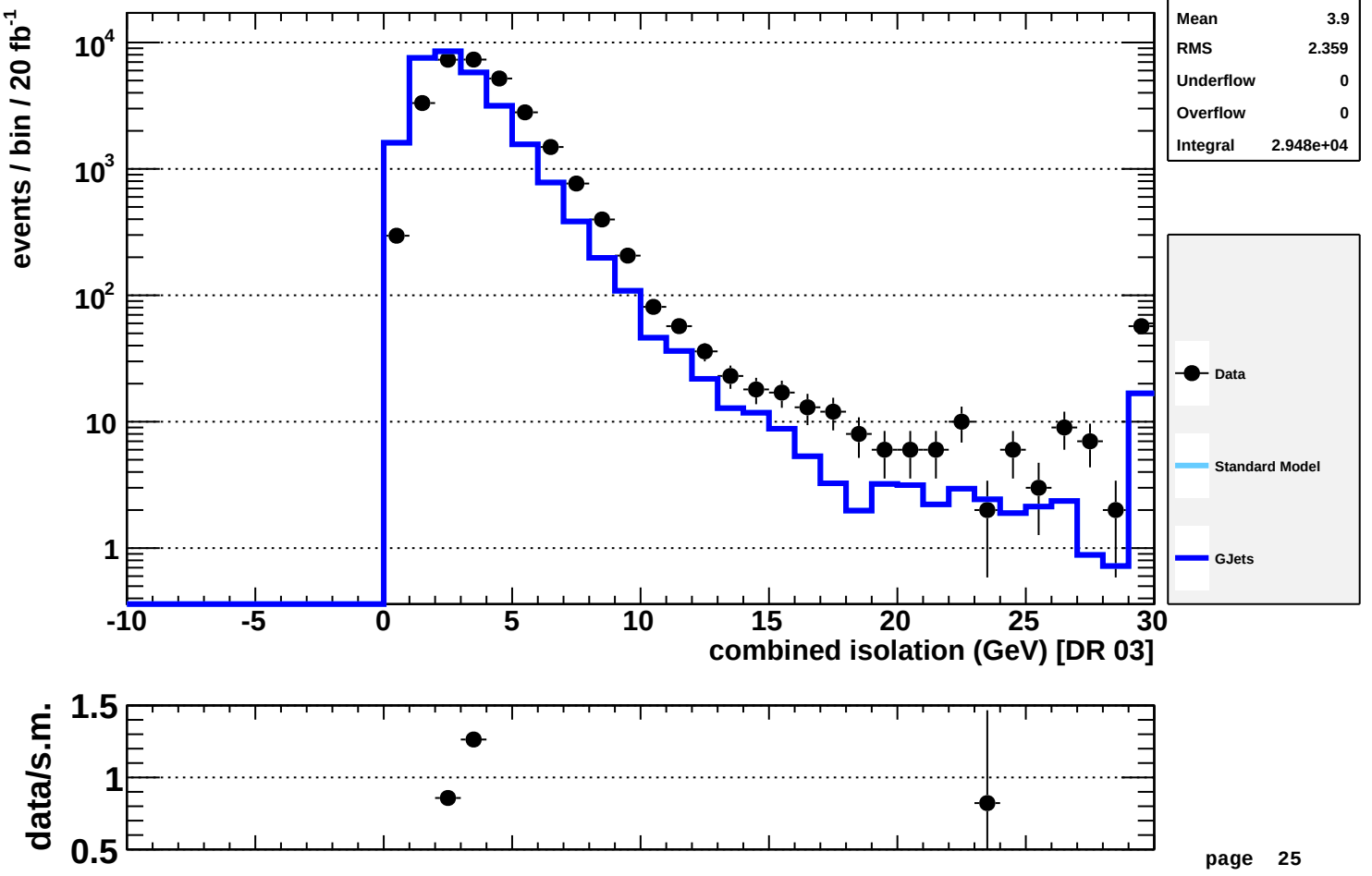


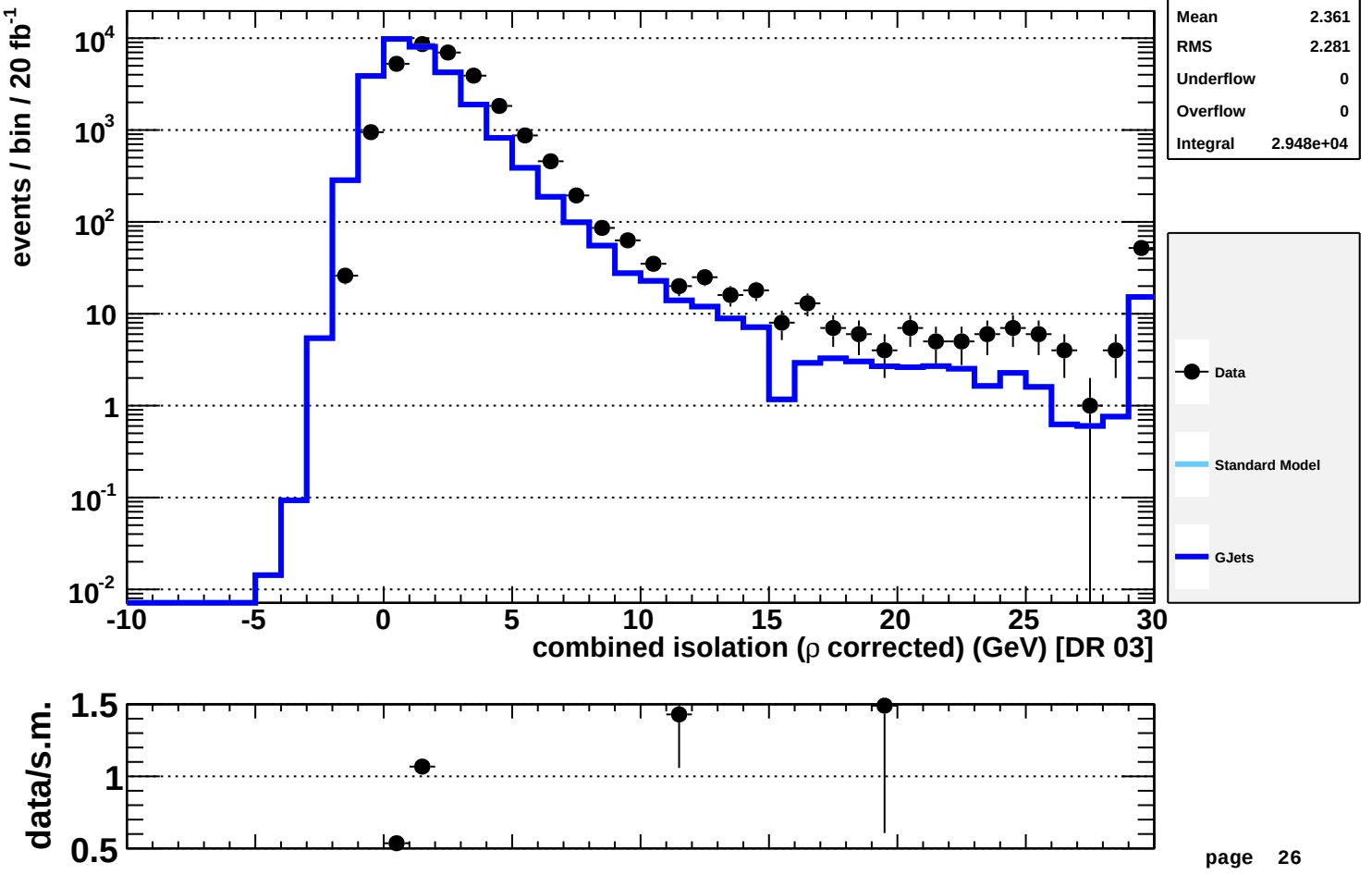
GJets

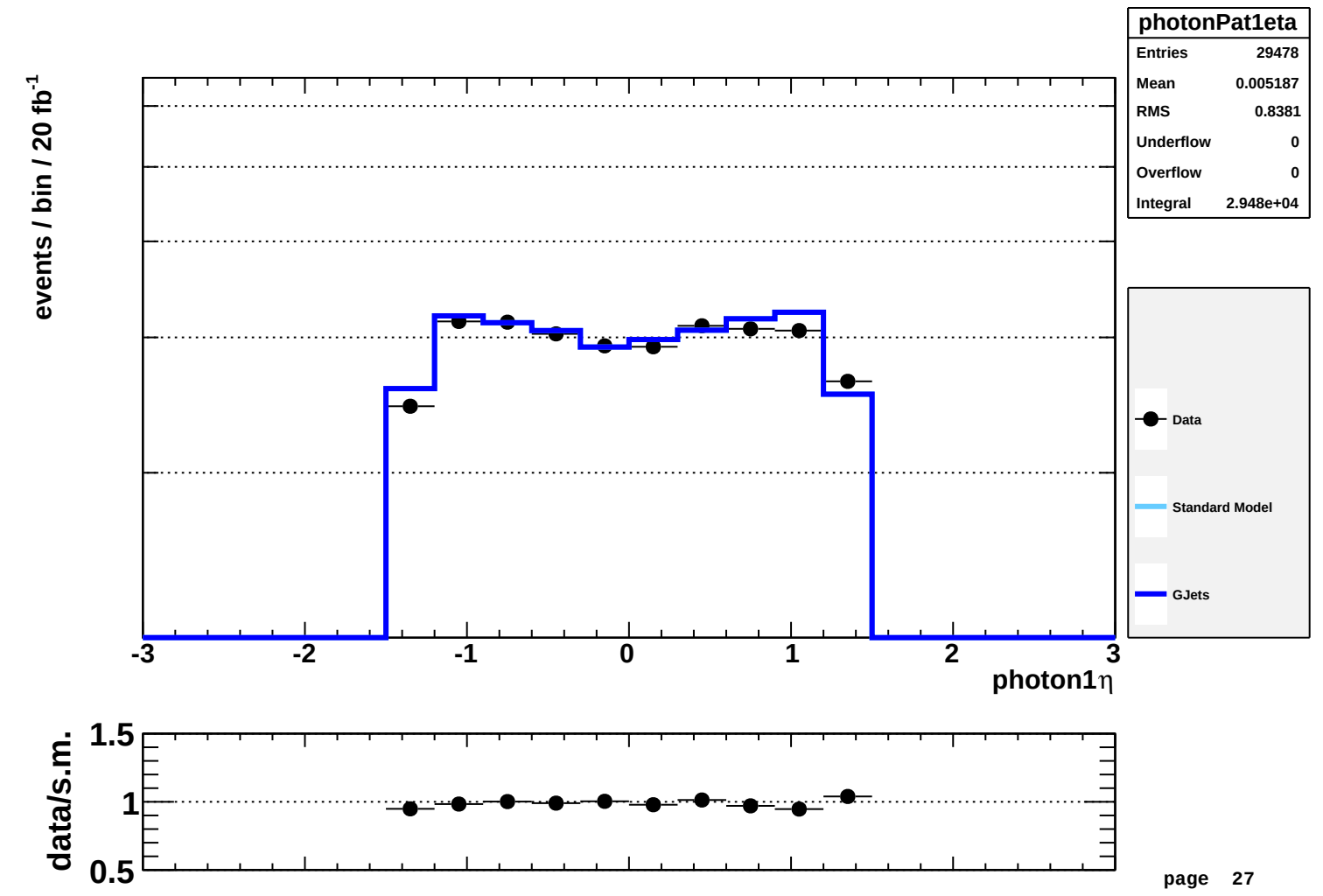


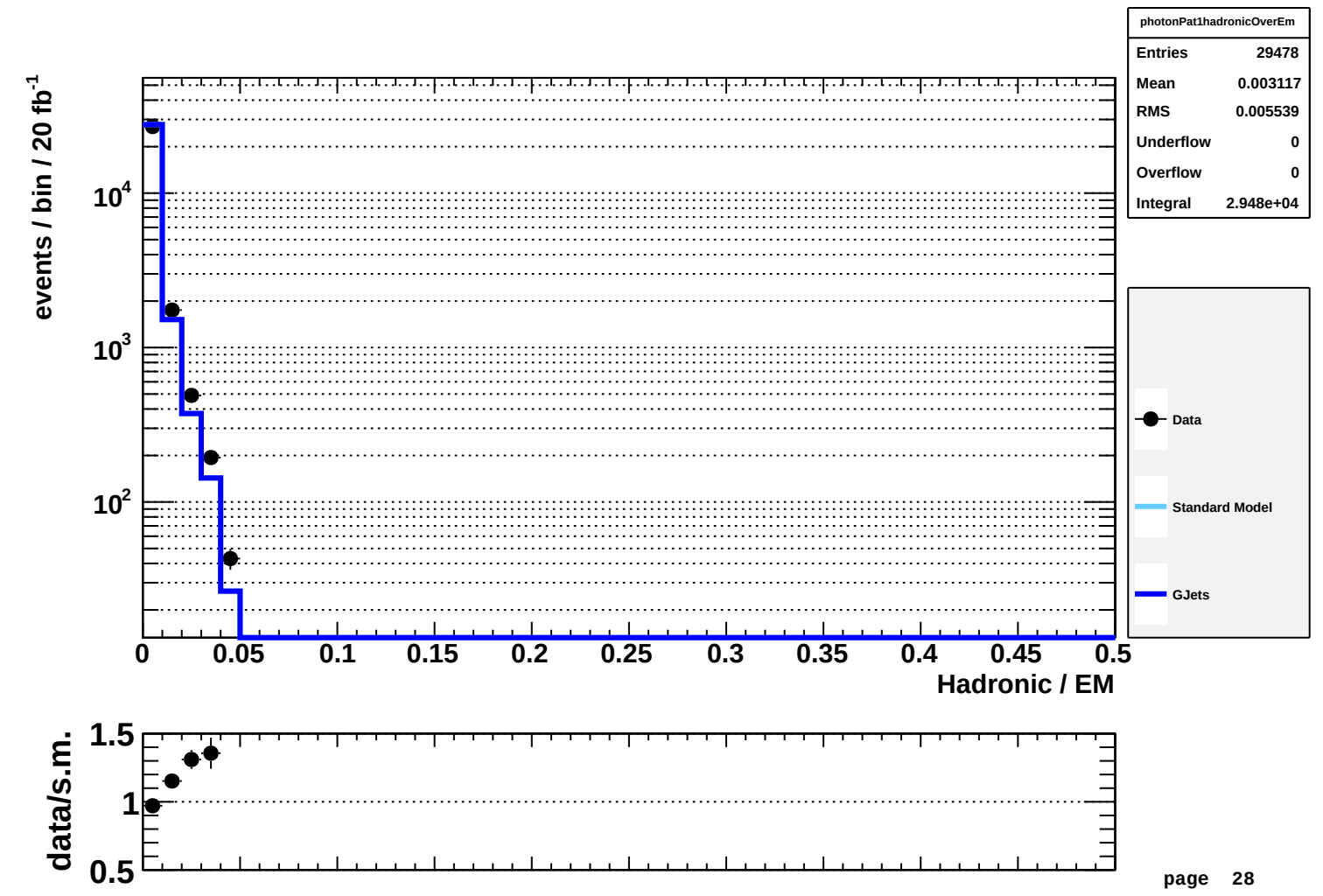

photonPat1Pt
Entries 29478
Mean 267.2
RMS 88.95
Underflow 0
Overflow 0
Integral 2.948e+04
events / bin / 20 fb-1
10^3
10^2
0 50 100 150 200 250 300 350 400 450 500
photon1 p_T (GeV)
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

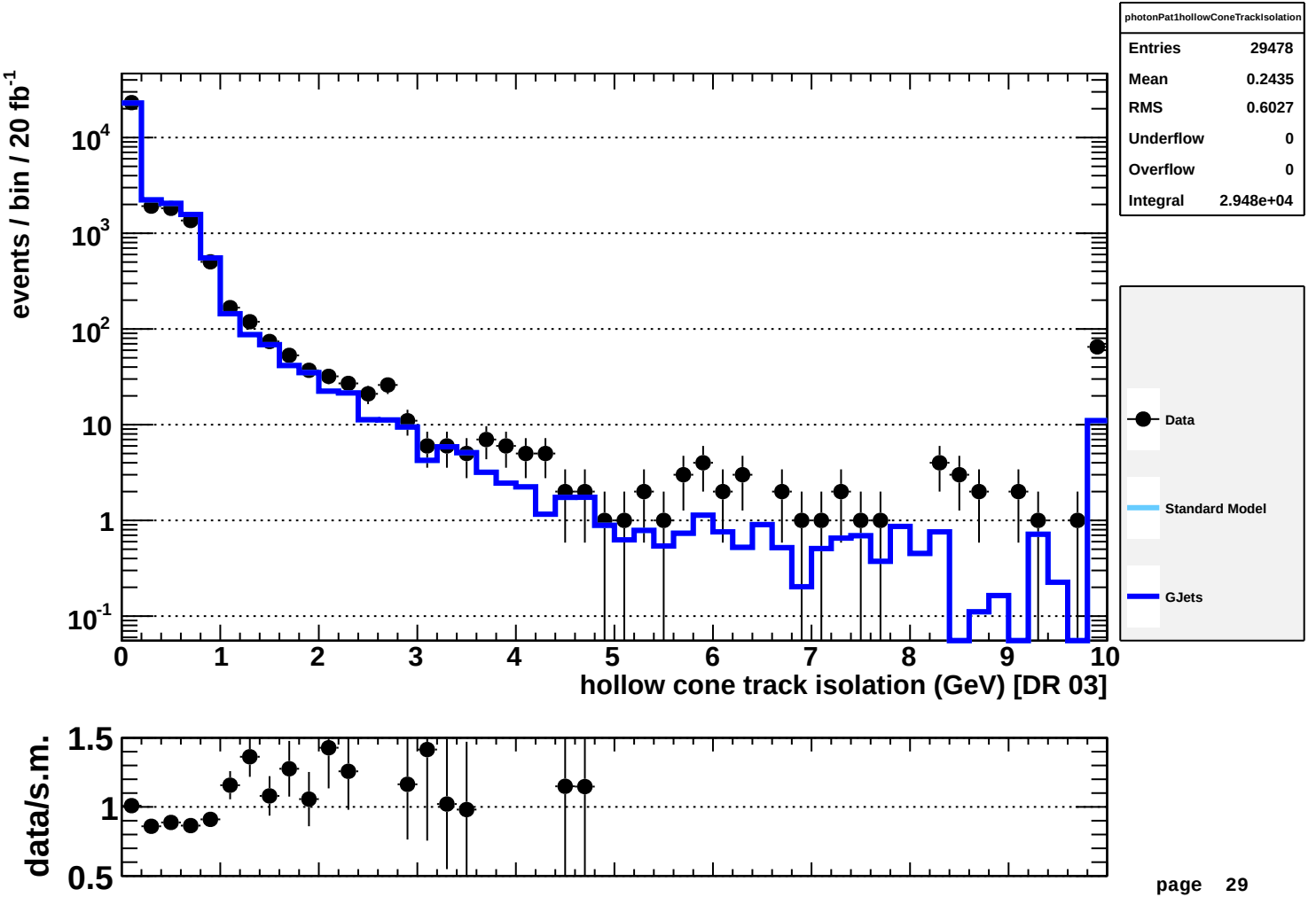

photonPat1SeedTime
Entries 29478
Mean -0.1006
RMS 0.5277
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
photon1 seed crystal time (ns)
data/s.m.

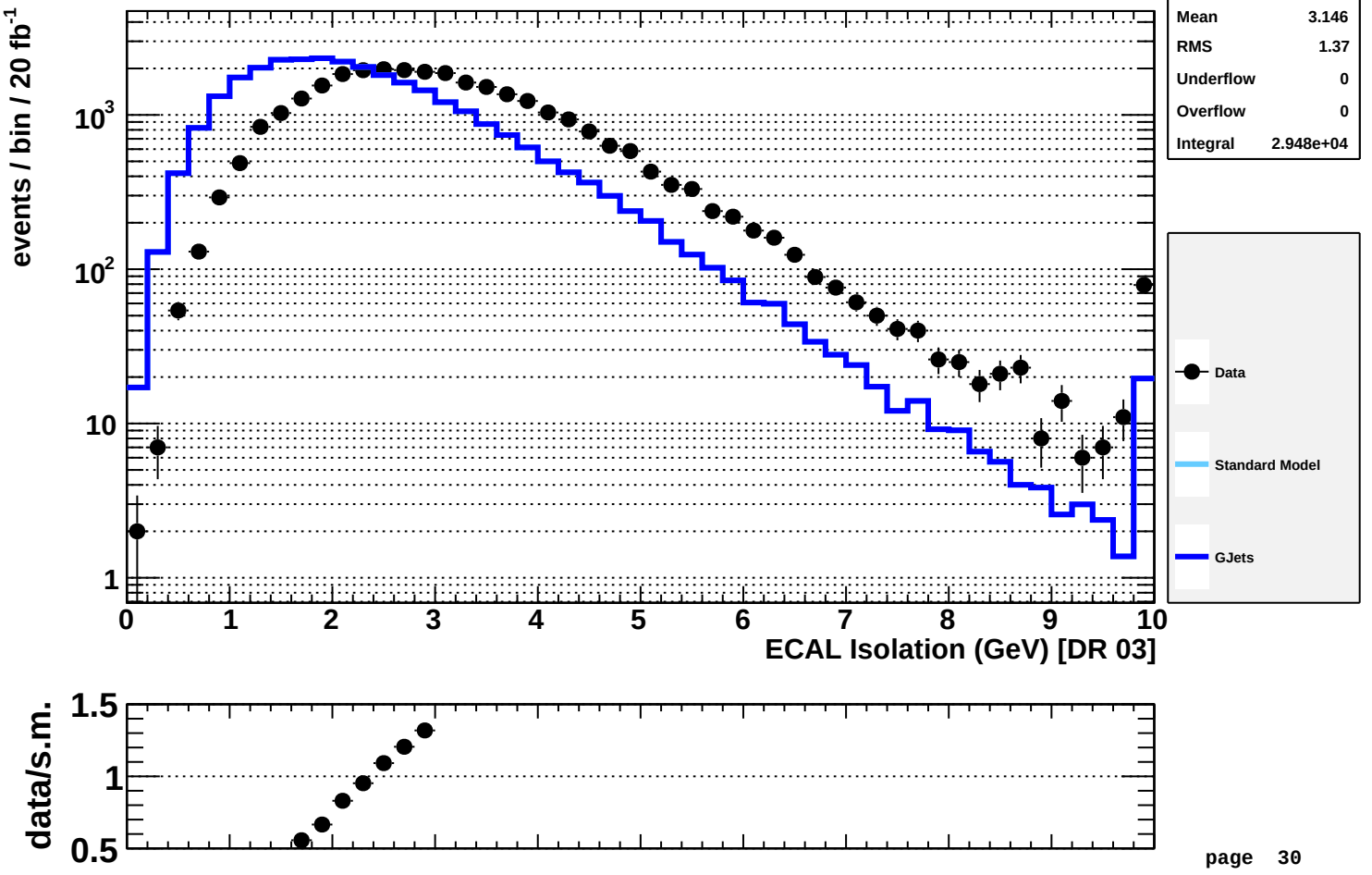

photonPat1combinedIsolation
Entries 29478
Mean 3.9
RMS 2.359
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
combined isolation (GeV) [DR 03]
data/s.m.

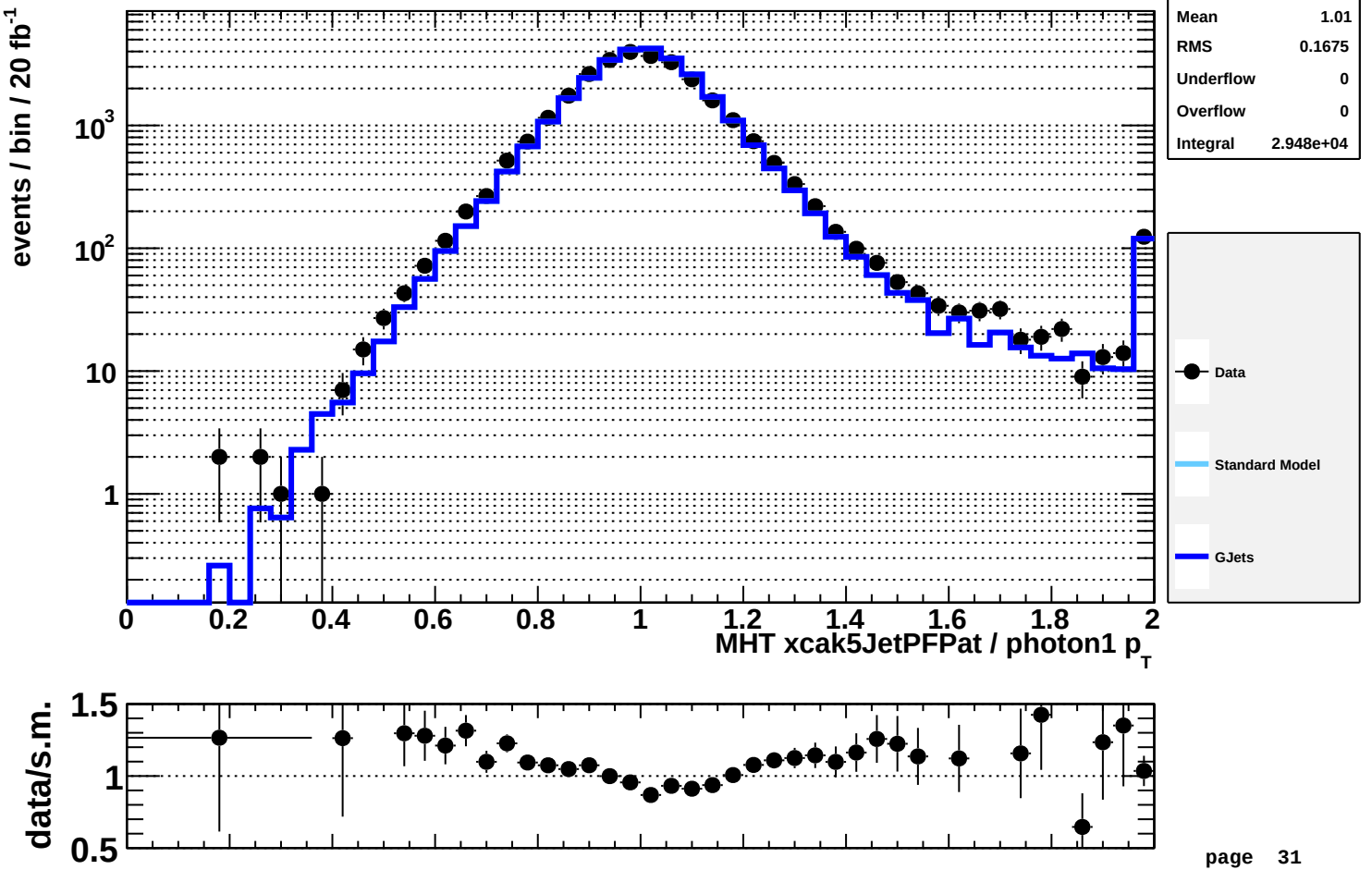

photonPat1combinedIsolationRhoCorr
Entries 29478
Mean 2.361
RMS 2.281
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
combined isolation (ρ corrected) (GeV) [DR 03]
data/s.m.


photonPat1eta
Entries 29478
Mean 0.005187
RMS 0.8381
Underflow 0
Overflow 0
Integral 2.948e+04
events / bin / 20 fb-1
Data
Standard Model
GJets
-3
-2
-1
0
1
2
3
photon1η
data/s.m.
1.5
1
0.5

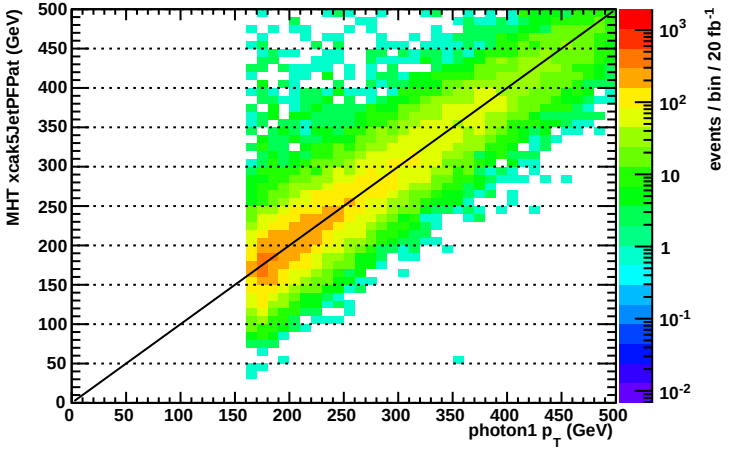

photonPat1hadronicOverEm
Entries 29478
Mean 0.003117
RMS 0.005539
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
Hadronic / EM
data/s.m.


photonPat1hollowConeTrackIsolation
Entries 29478
Mean 0.2435
RMS 0.6027
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
hollow cone track isolation (GeV) [DR 03]
data/s.m.

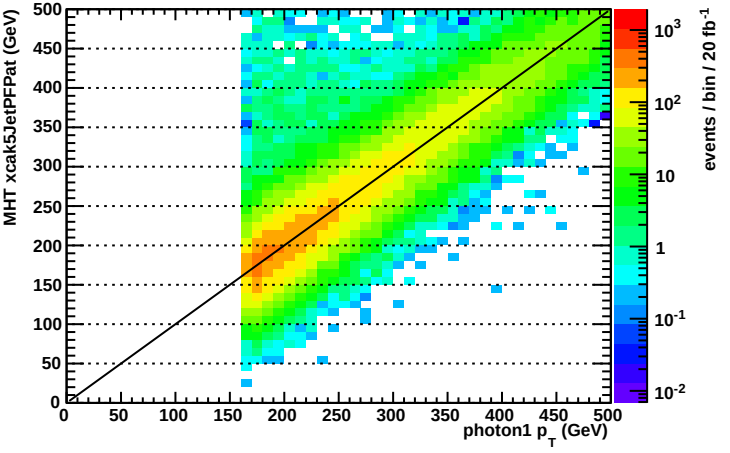

photonPat1jurassicEcalIsolation
Entries 29478
Mean 3.146
RMS 1.37
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
ECAL Isolation (GeV) [DR 03]
data/s.m.


photonPat1mhtOverPhotonPt
Entries 29478
Mean 1.01
RMS 0.1675
Underflow 0
Overflow 0
Integral 2.948e+04
events / bin / 20 fb-1
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
MHT xcak5JetPFPat / photon1 pT
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

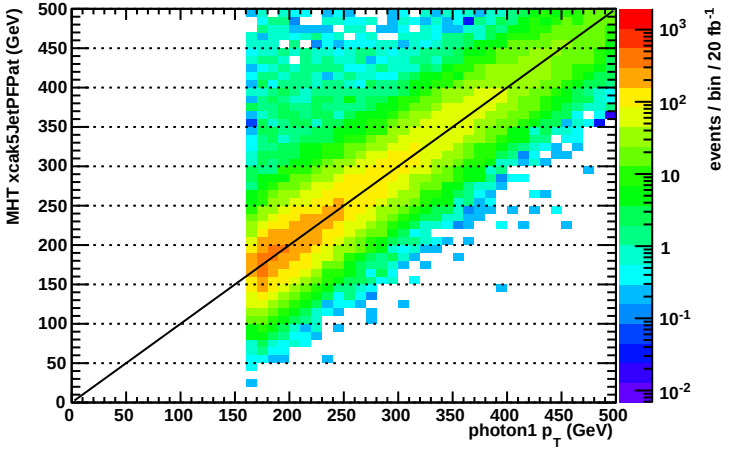
Data

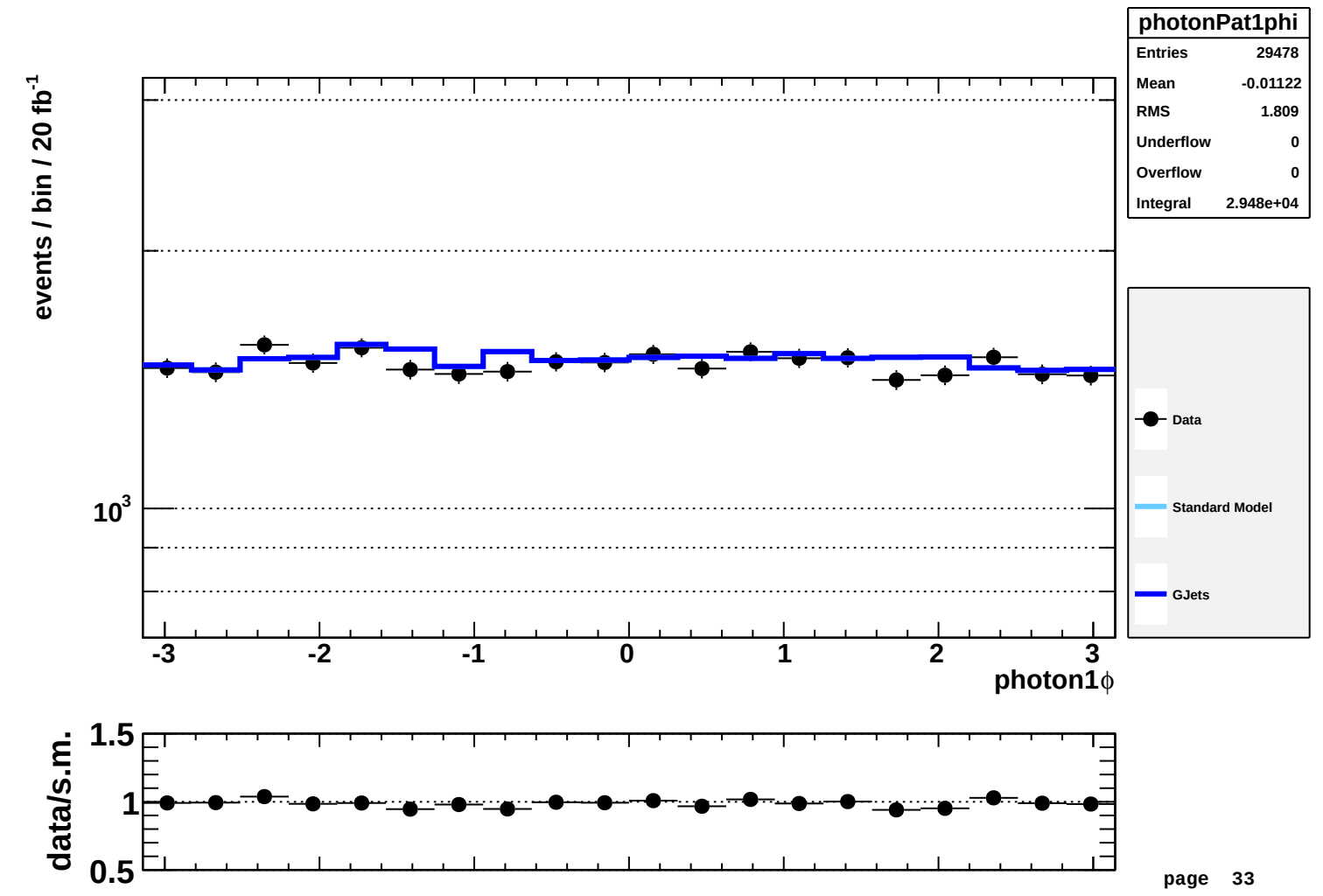


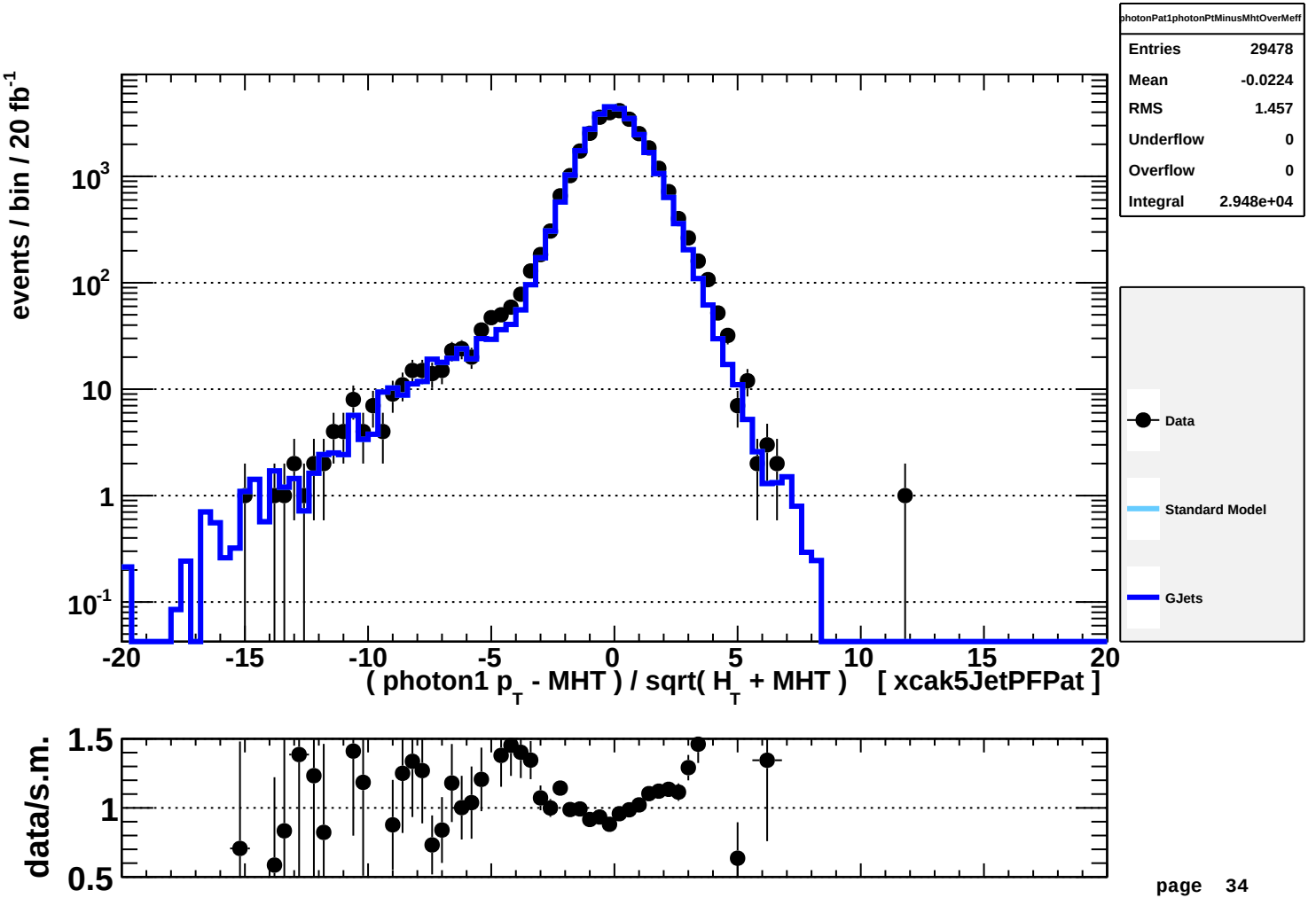
Standard Model

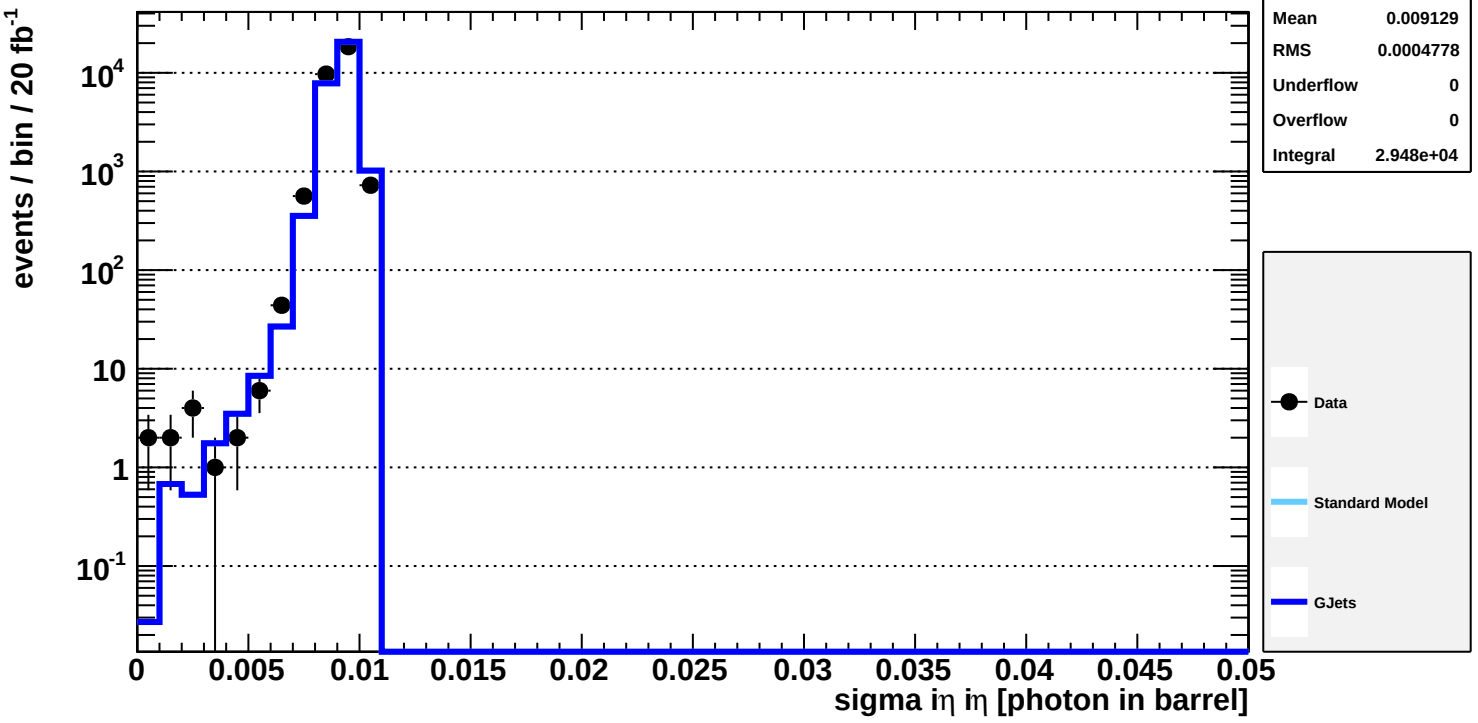


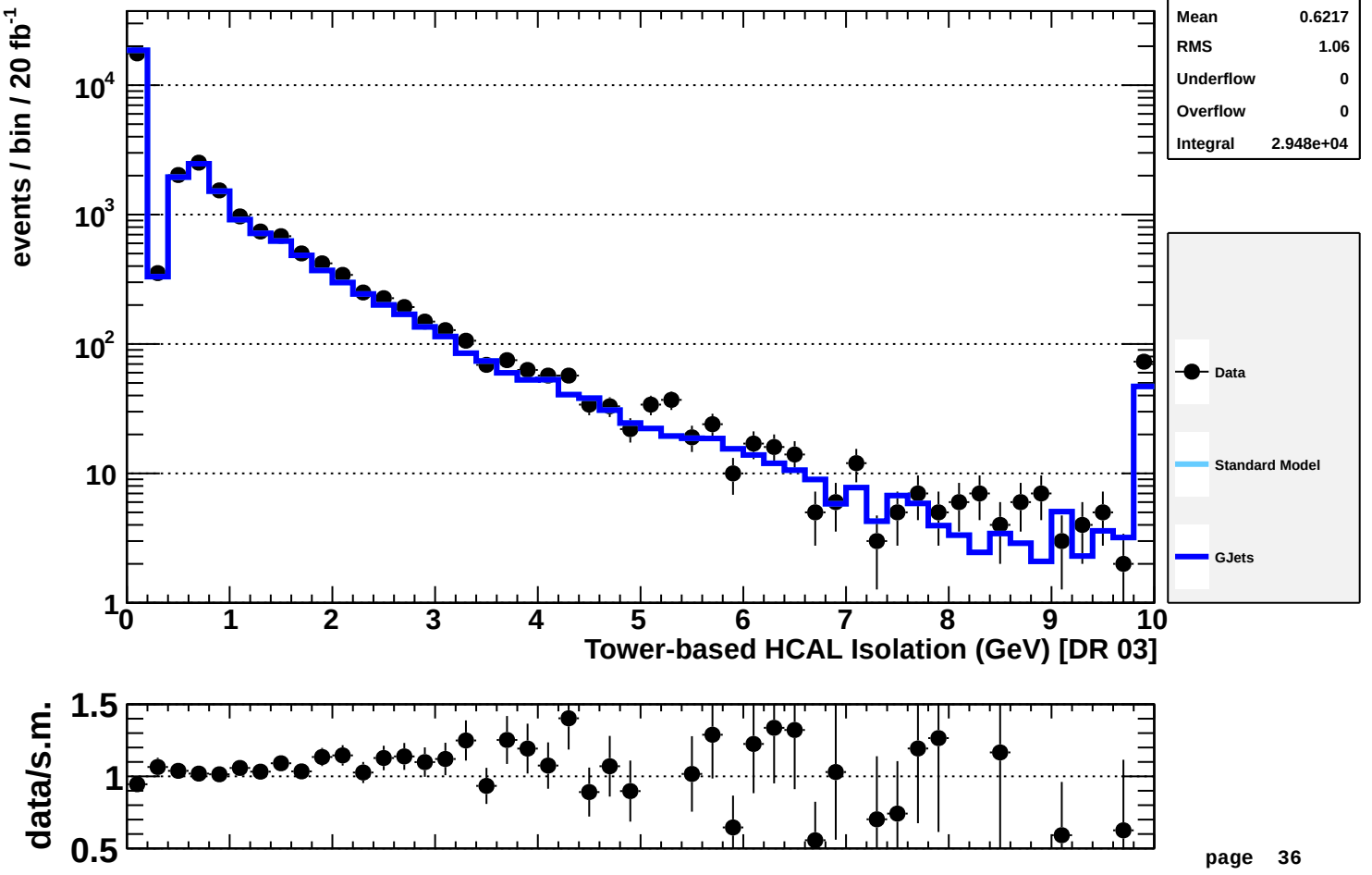
GJets




photonPat1phi
Entries 29478
Mean -0.01122
RMS 1.809
Underflow 0
Overflow 0
Integral 2.948e+04
events / bin / 20 fb-1
10^3
-3
-2
-1
0
1
2
3
photon1ϕ
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

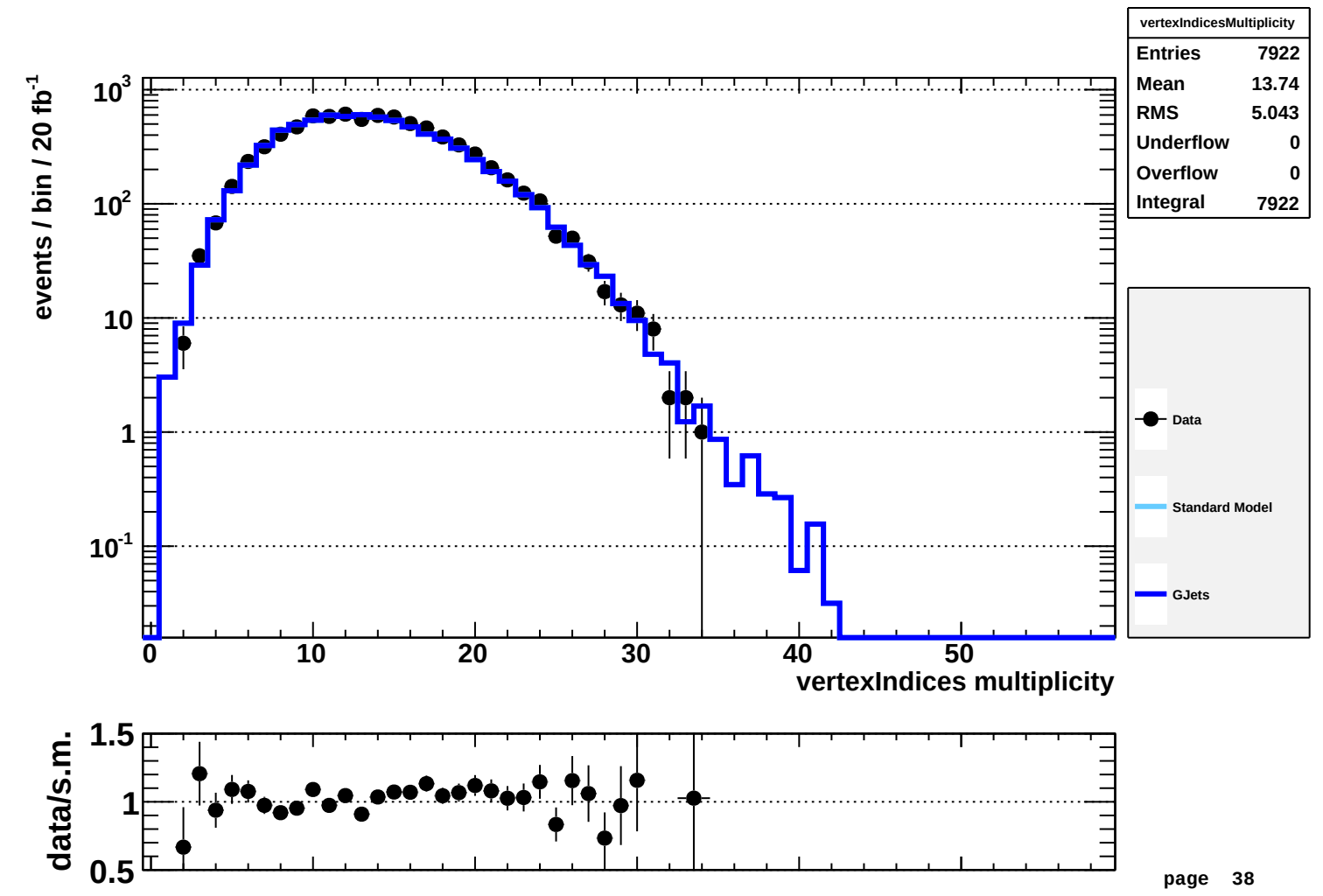

photonPat1photonPtMinusMhtOverMeff
Entries 29478
Mean -0.0224
RMS 1.457
Underflow 0
Overflow 0
Integral 2.948e+04
events / bin / 20 fb-1
Data
Standard Model
GJets
(photon1 pT - MHT) / sqrt(HT + MHT) [xcak5JetPFPat]
data/s.m.

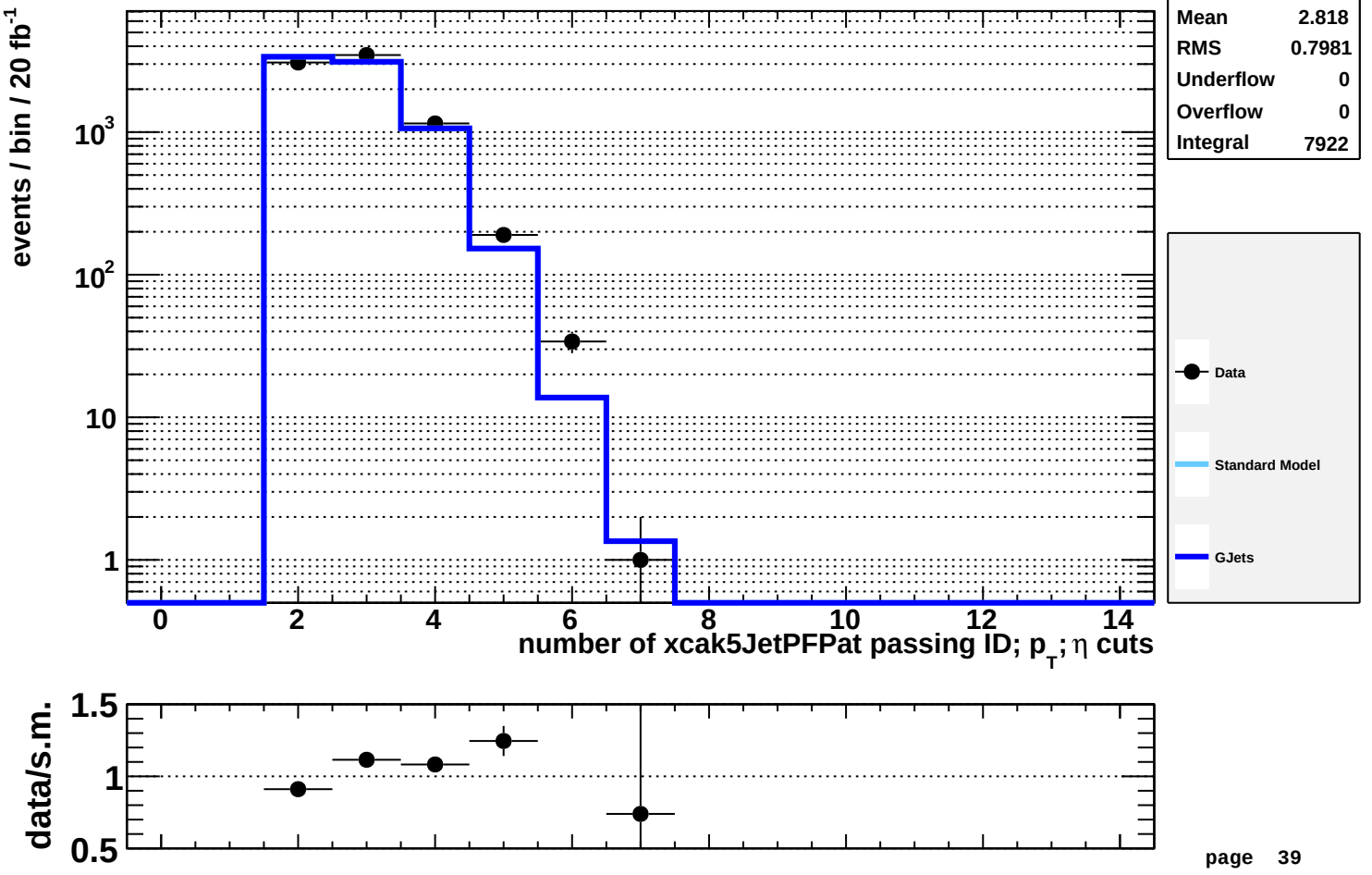

photonPat1sigmaletaletaBarrel
Entries 29478
Mean 0.009129
RMS 0.0004778
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
sigma iη iη [photon in barrel]
data/s.m.

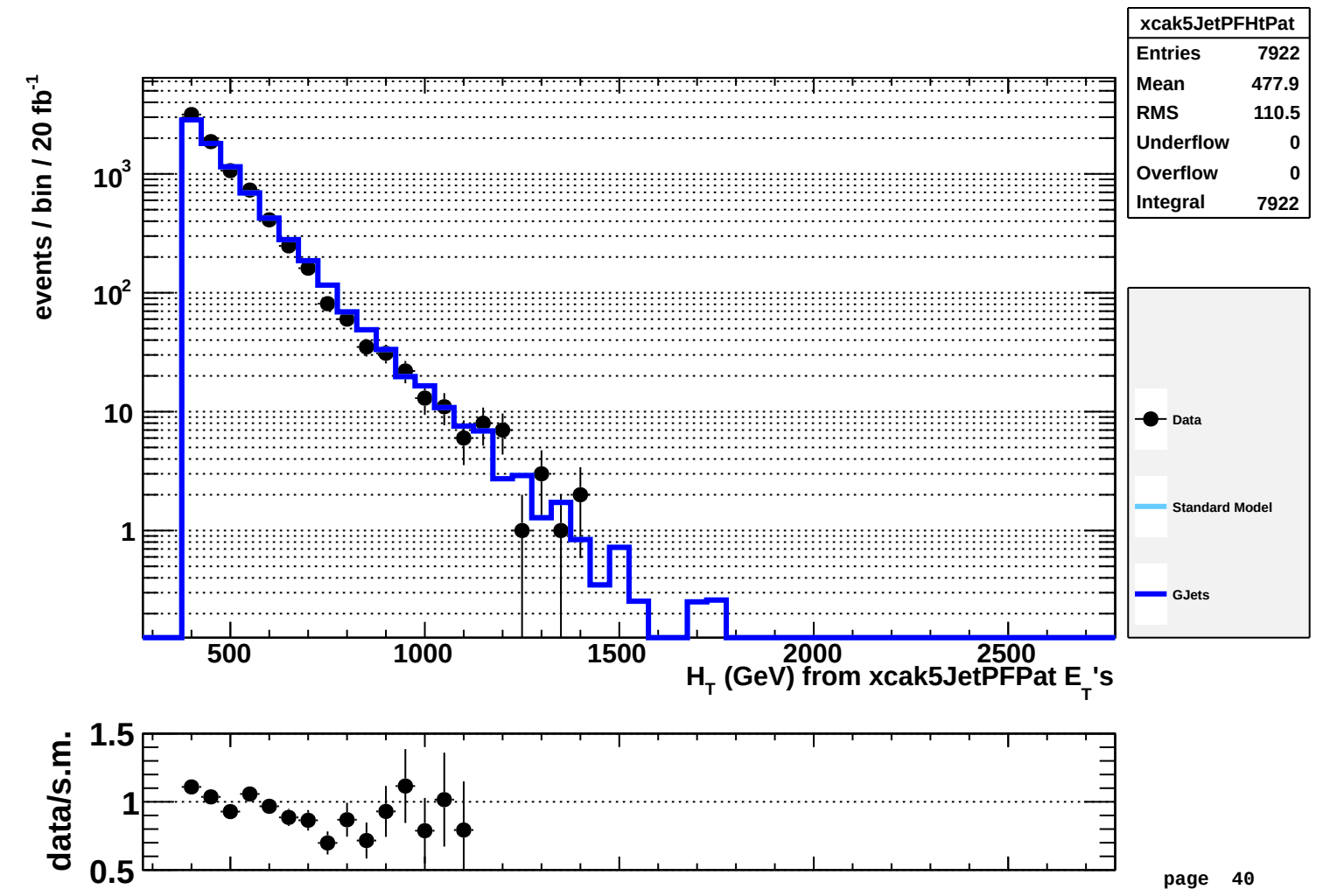

photonPat1towerBasedHcalIsolation
Entries 29478
Mean 0.6217
RMS 1.06
Underflow 0
Overflow 0
Integral 2.948e+04
Data
Standard Model
GJets
events / bin / 20 fb-1
Tower-based HCAL Isolation (GeV) [DR 03]
data/s.m.

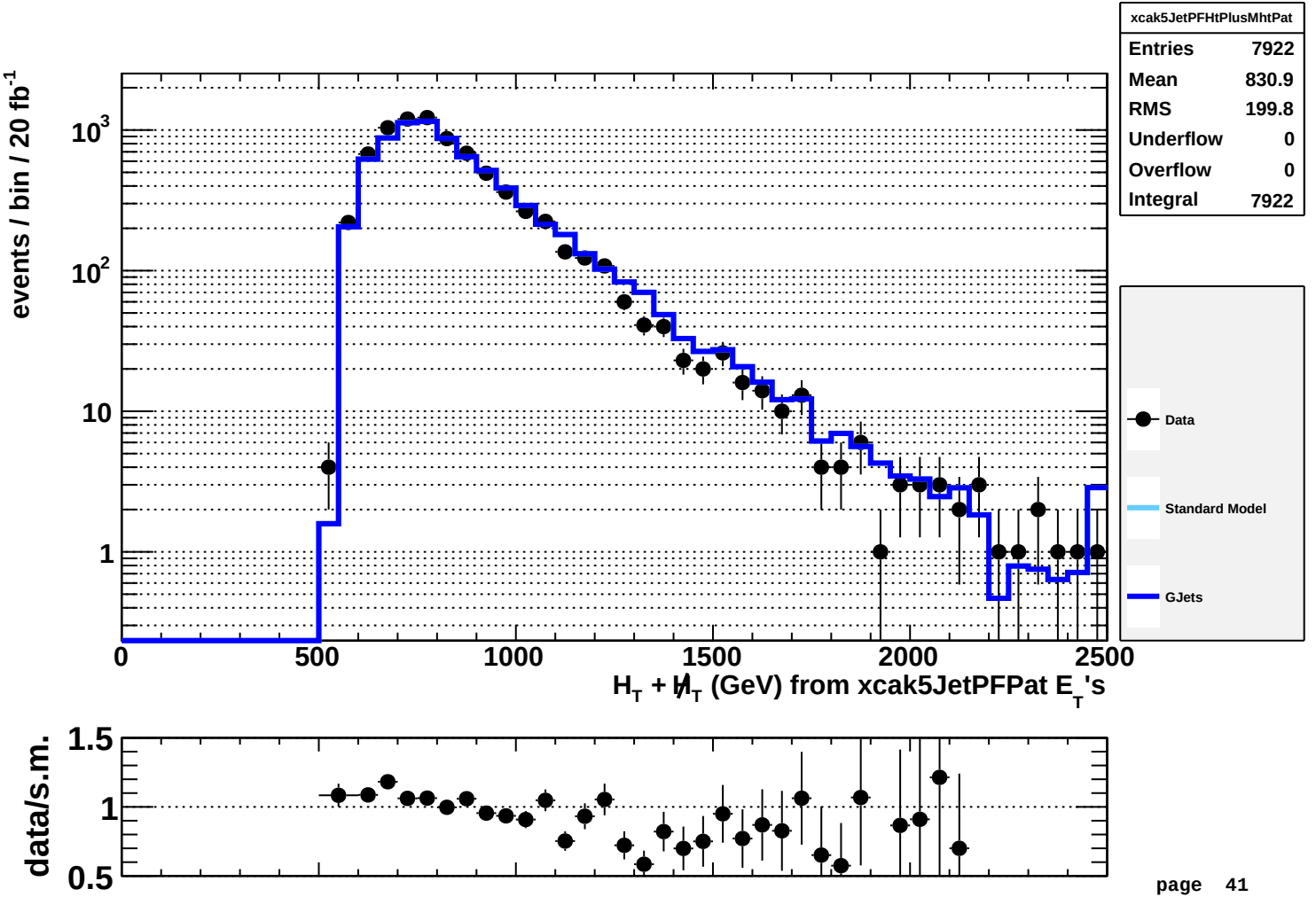
s:	jetEtaSelector	xcak5JetPFPat; |eta[index[0]]|<=2.5
t:	value	375.00<=xcak5JetPFSumEtPat
[jetSumPlots]		
v:	multiplicity	2 <= xcak5JetPFIndicesPat
w:	multiplicity	0 <= xcak5JetPFIndicesOtherPat <= 0
x:	multiplicity	0 <= xcak5JetPFIndicesWithOddMuonPat <= 0
y:	uniquelyMatchedNonisoMuons	xcak5JetPFPat
z:	multiplicity	0 <= electronIndicesPF <= 0
A:	multiplicity	0 <= muonIndicesPF <= 0
B:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
C:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
D:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
E:	pt	165.00<=photonP4Pat[i[0]].pt; photonIndicesPat
F:	absEta	0.00<=photonP4Pat[i[0]].absEta<=1.44; photonIndicesPat
G:	DeltaRGreaterSelector	xcak5JetPFPat; DR(photonPat[i[0]], jet) > 1.00
H:	multiplicity	1 <= photonIndicesPat <= 1
| I:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPFPlusphotonIndicesPat<=1.25
| J:	value	0.55<=xcak5JetPFAlphaTEtPat

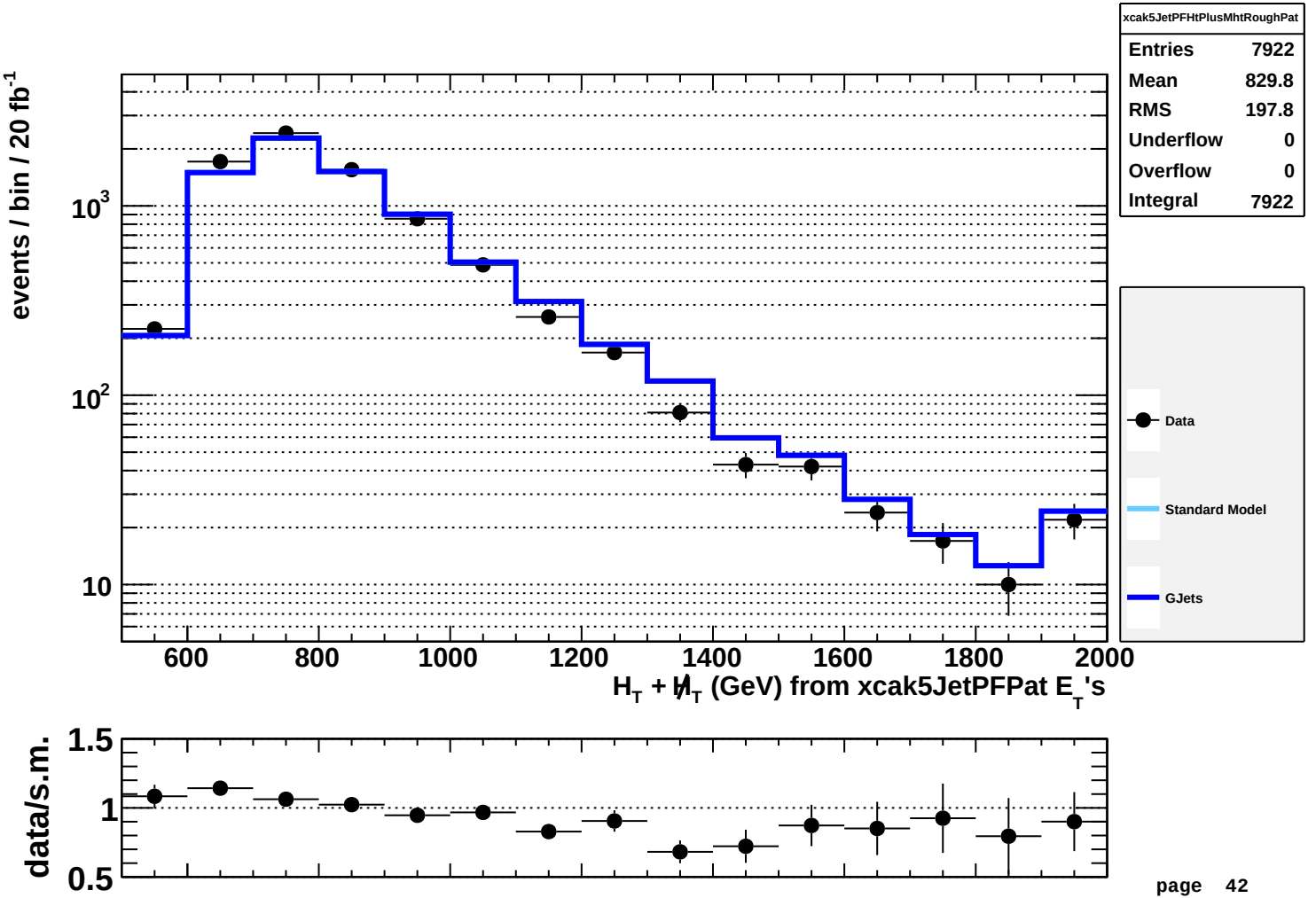
	Data	Standard Model	GJets	data/s.m.
s:	12166027	6.113(1)e+6	6.113(1)e+6	1.9901(7)
t:	11233931	2.2154(8)e+6	2.2154(8)e+6	5.071(2)
[jetSumPlots]				
v:	11233931	2.2154(8)e+6	2.2154(8)e+6	5.071(2)
w:	11055260	2.1843(8)e+6	2.1843(8)e+6	5.061(2)
x:	11052859	2.1838(8)e+6	2.1838(8)e+6	5.061(2)
y:	11049975	2.1832(8)e+6	2.1832(8)e+6	5.061(2)
z:	11015040	2.1413(8)e+6	2.1413(8)e+6	5.144(2)
A:	11009428	2.1411(8)e+6	2.1411(8)e+6	5.142(2)
B:	11008013	2.1407(8)e+6	2.1407(8)e+6	5.142(2)
C:	11007336	2.1400(8)e+6	2.1400(8)e+6	5.144(2)
D:	3388782	6.377(4)e+5	6.377(4)e+5	5.314(5)
E:	39894	3.98(1)e+4	3.98(1)e+4	1.003(6)
F:	34809	3.517(10)e+4	3.517(10)e+4	0.990(6)
G:	29593	2.988(9)e+4	2.988(9)e+4	0.990(6)
H:	29478	2.987(9)e+4	2.987(9)e+4	0.987(6)
| I:	27953	2.855(9)e+4	2.855(9)e+4	0.979(7)
| J:	7922	7.72(5)e+3	7.72(5)e+3	1.03(1)

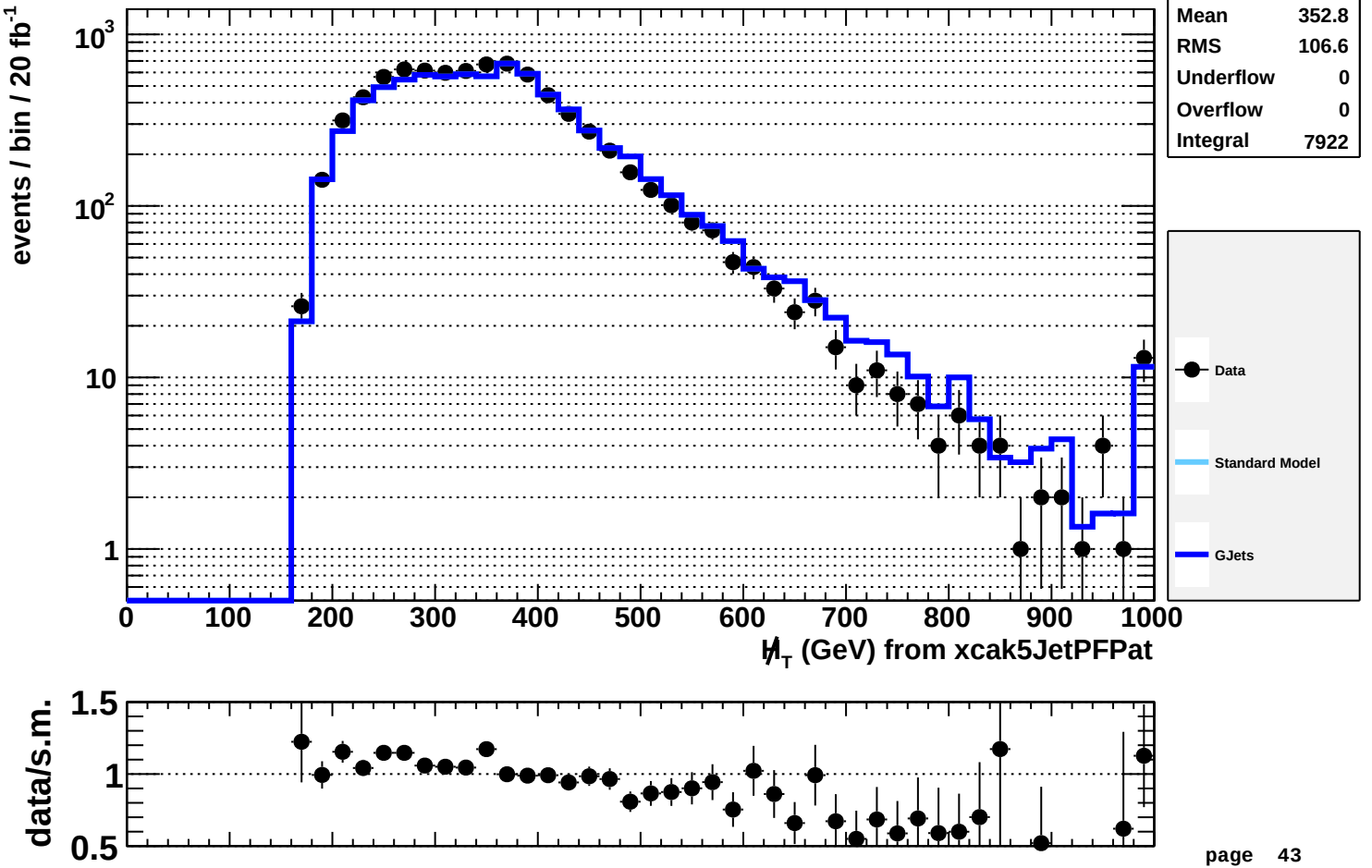

vertexIndicesMultiplicity
Entries 7922
Mean 13.74
RMS 5.043
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
vertexIndices multiplicity
data/s.m.

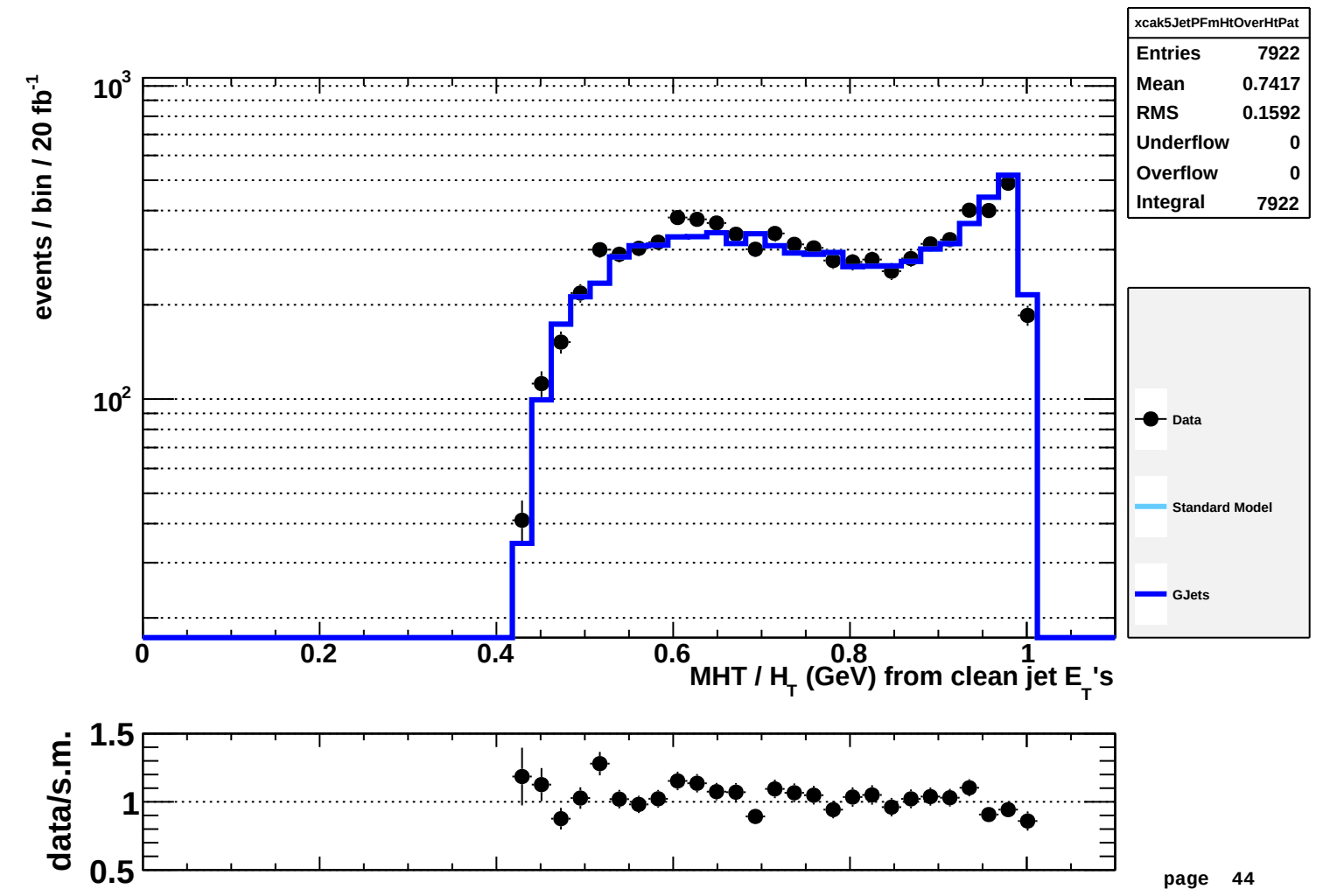

xcak5JetPFIndicesPat
Entries 7922
Mean 2.818
RMS 0.7981
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; p_T; η cuts
data/s.m.
1.5
1
0.5

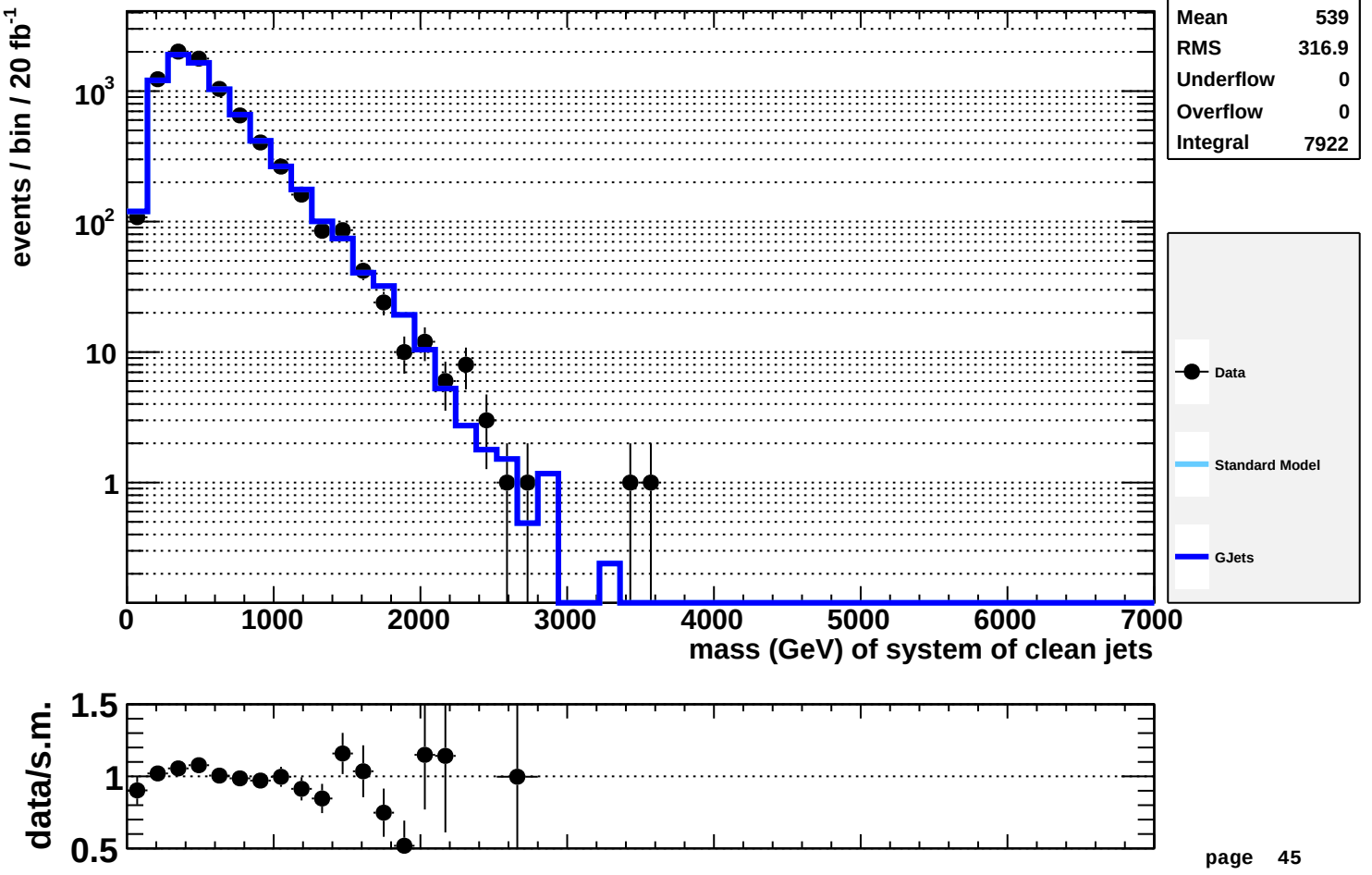

xcak5JetPFHtPat
Entries 7922
Mean 477.9
RMS 110.5
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
1
500
1000
1500
2000
2500
H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.
1.5
1
0.5


xcak5JetPFHtPlusMhtPat
Entries 7922
Mean 830.9
RMS 199.8
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
1
0
500
1000
1500
2000
2500
HT + MHT (GeV) from xcak5JetPFPat ET's
data/s.m.
1.5
1
0.5

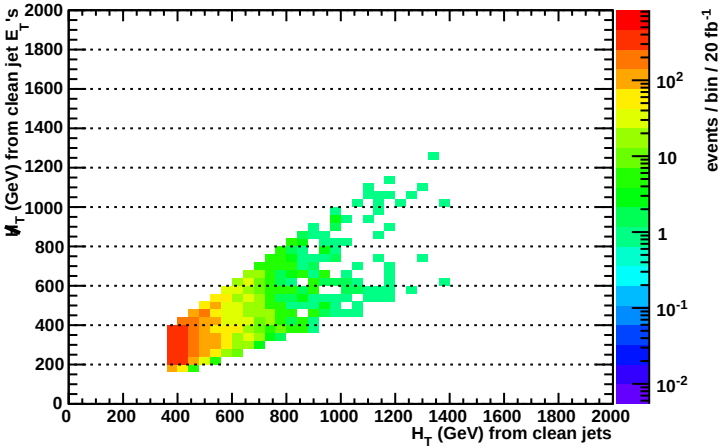

xcak5JetPFHtPlusMhtRoughPat
Entries 7922
Mean 829.8
RMS 197.8
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
600
800
1000
1200
1400
1600
1800
2000
H_T + /H_T (GeV) from xcak5JetPFPat E_T's
data/s.m.
1.5
1
0.5


xcak5JetPFMhtPat
Entries 7922
Mean 352.8
RMS 106.6
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
1
0
100
200
300
400
500
600
700
800
900
1000
H_T (GeV) from xcak5JetPFPat
data/s.m.
1.5
1
0.5

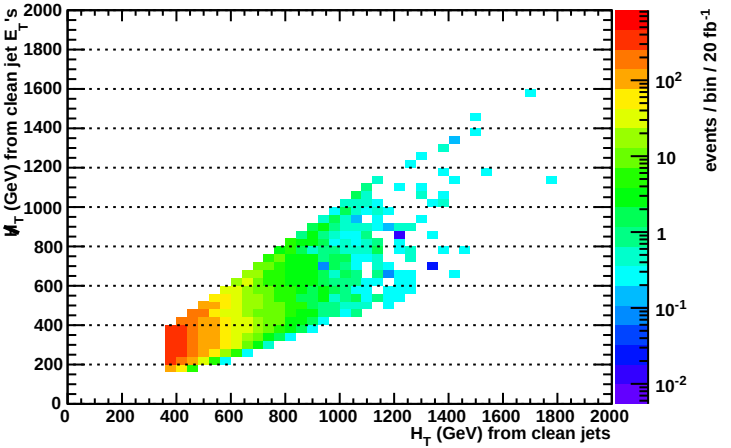

xcak5JetPFmHtOverHtPat
Entries 7922
Mean 0.7417
RMS 0.1592
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
0
0.2
0.4
0.6
0.8
1
MHT / H_T (GeV) from clean jet E_T's
data/s.m.
1.5
1
0.5


xcak5JetPFmPat
Entries 7922
Mean 539
RMS 316.9
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
mass (GeV) of system of clean jets
data/s.m.

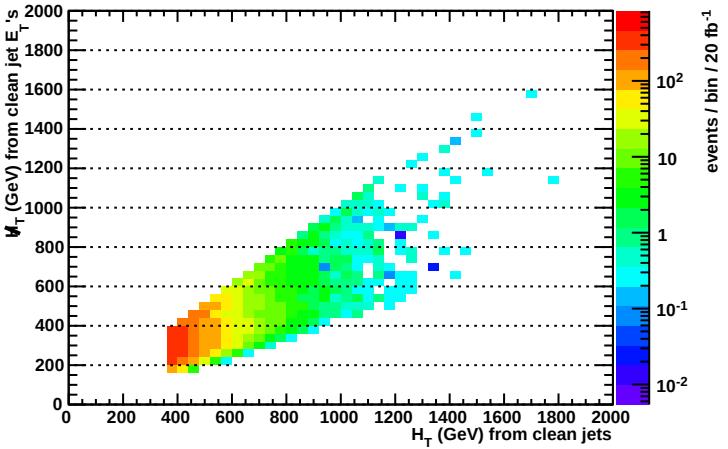
Data

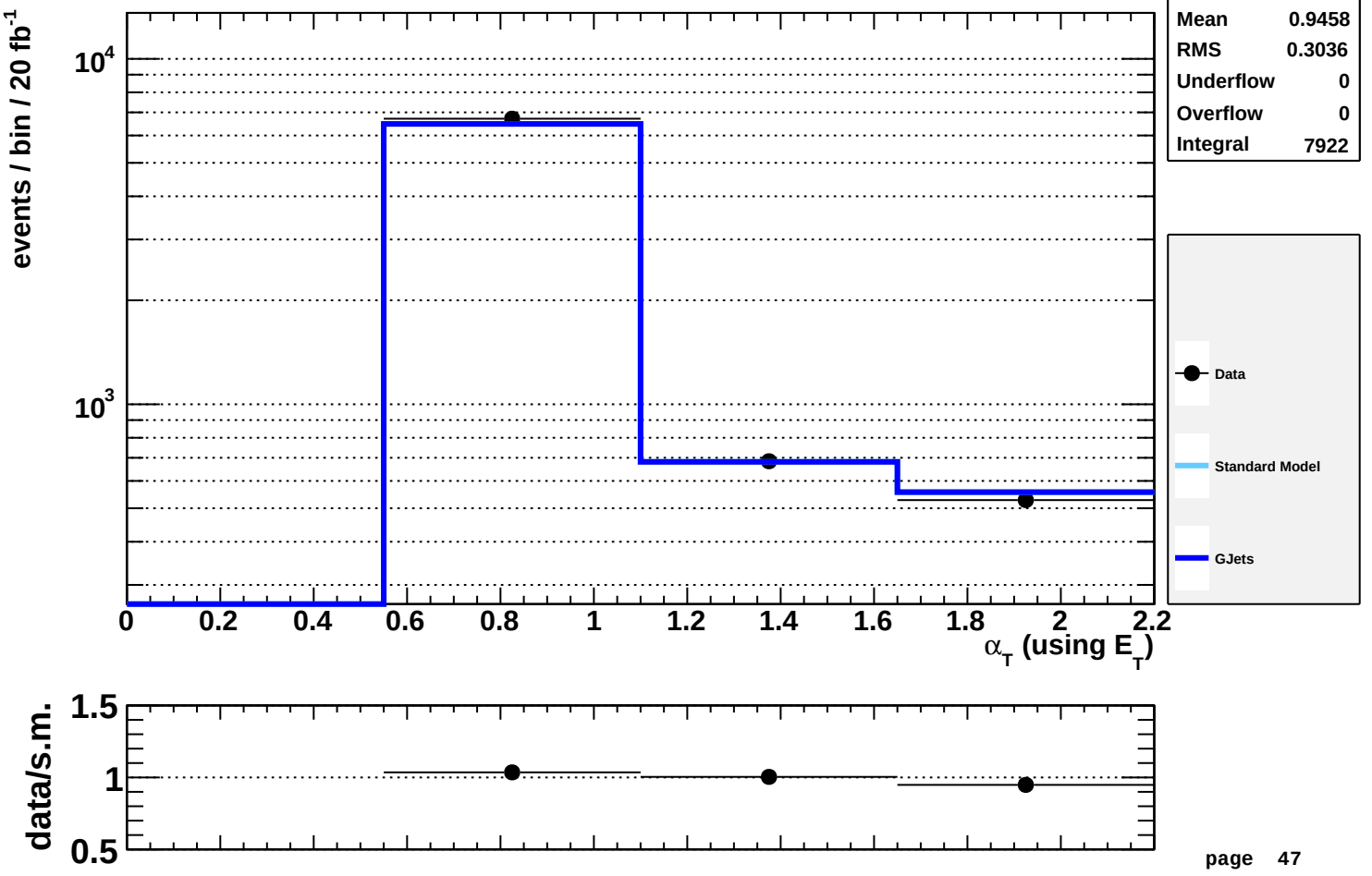


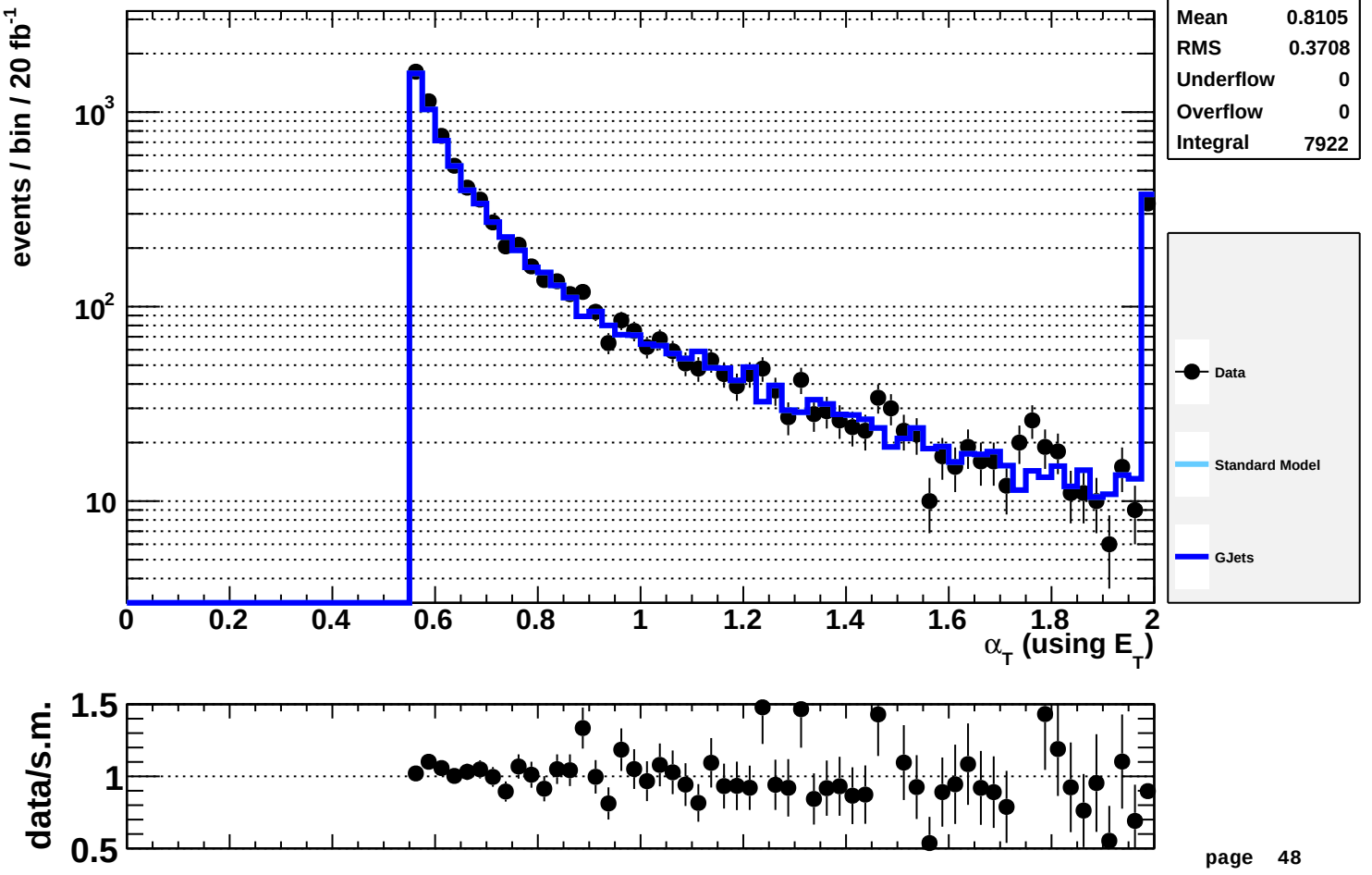
Standard Model

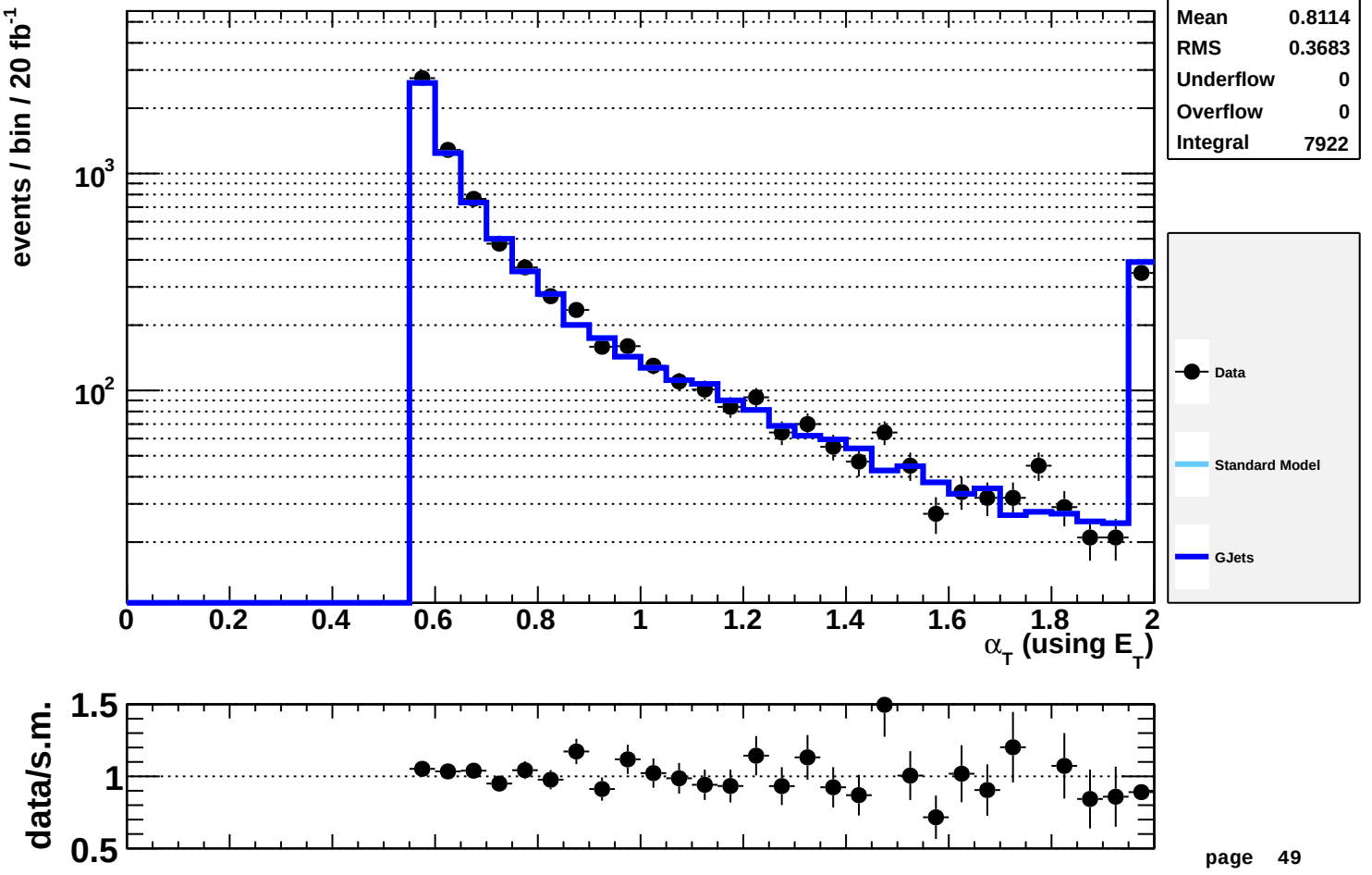


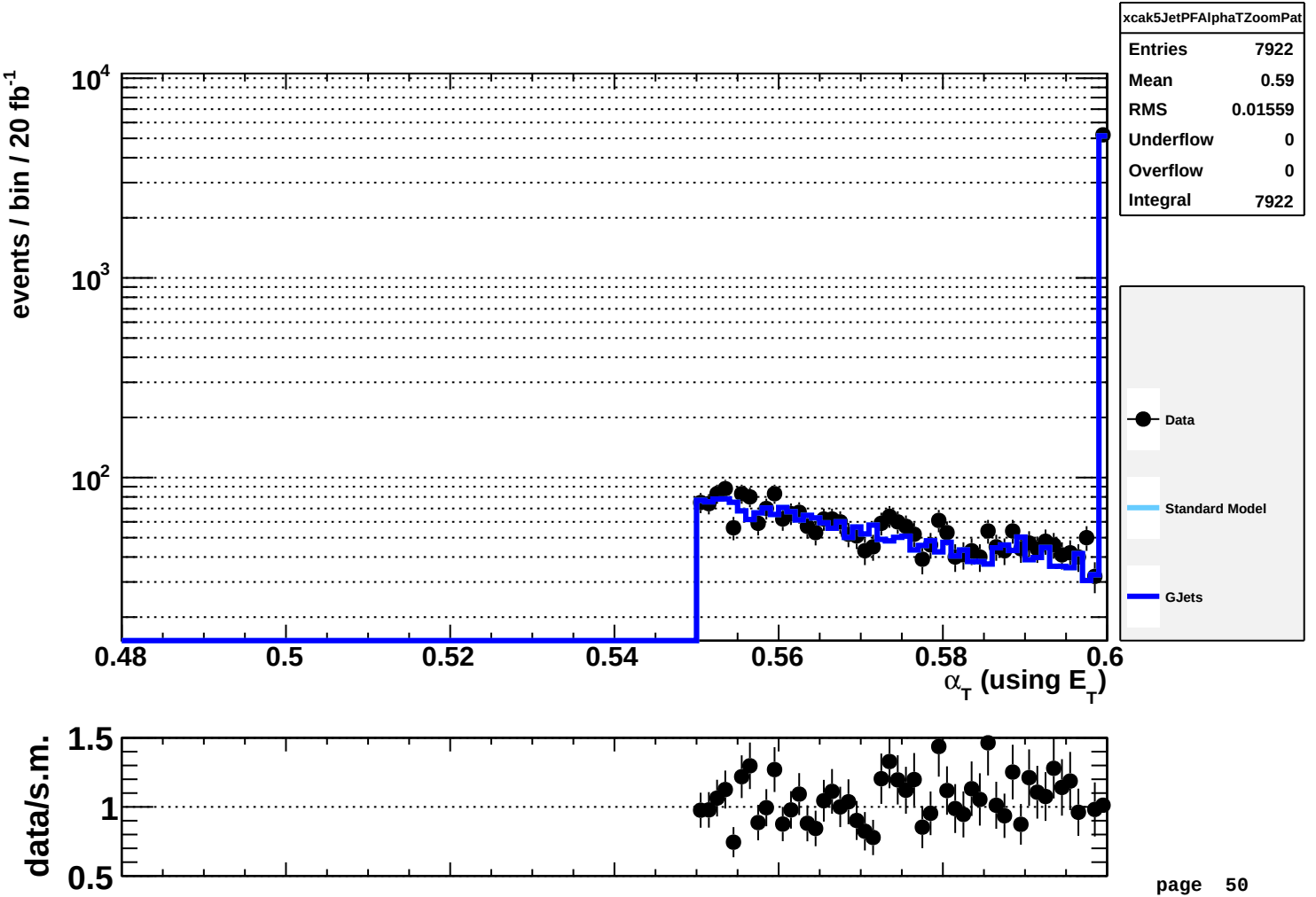
GJets

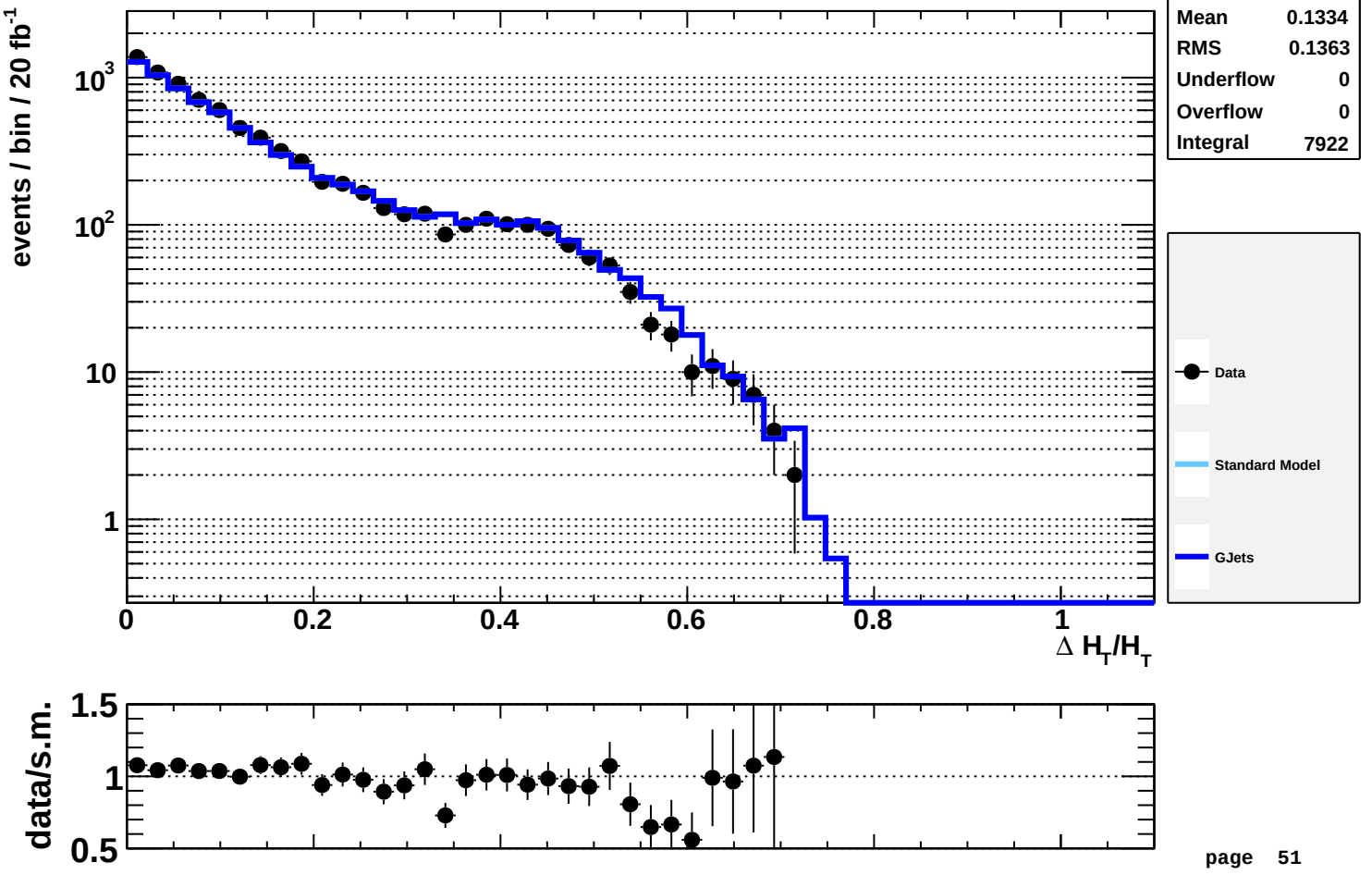


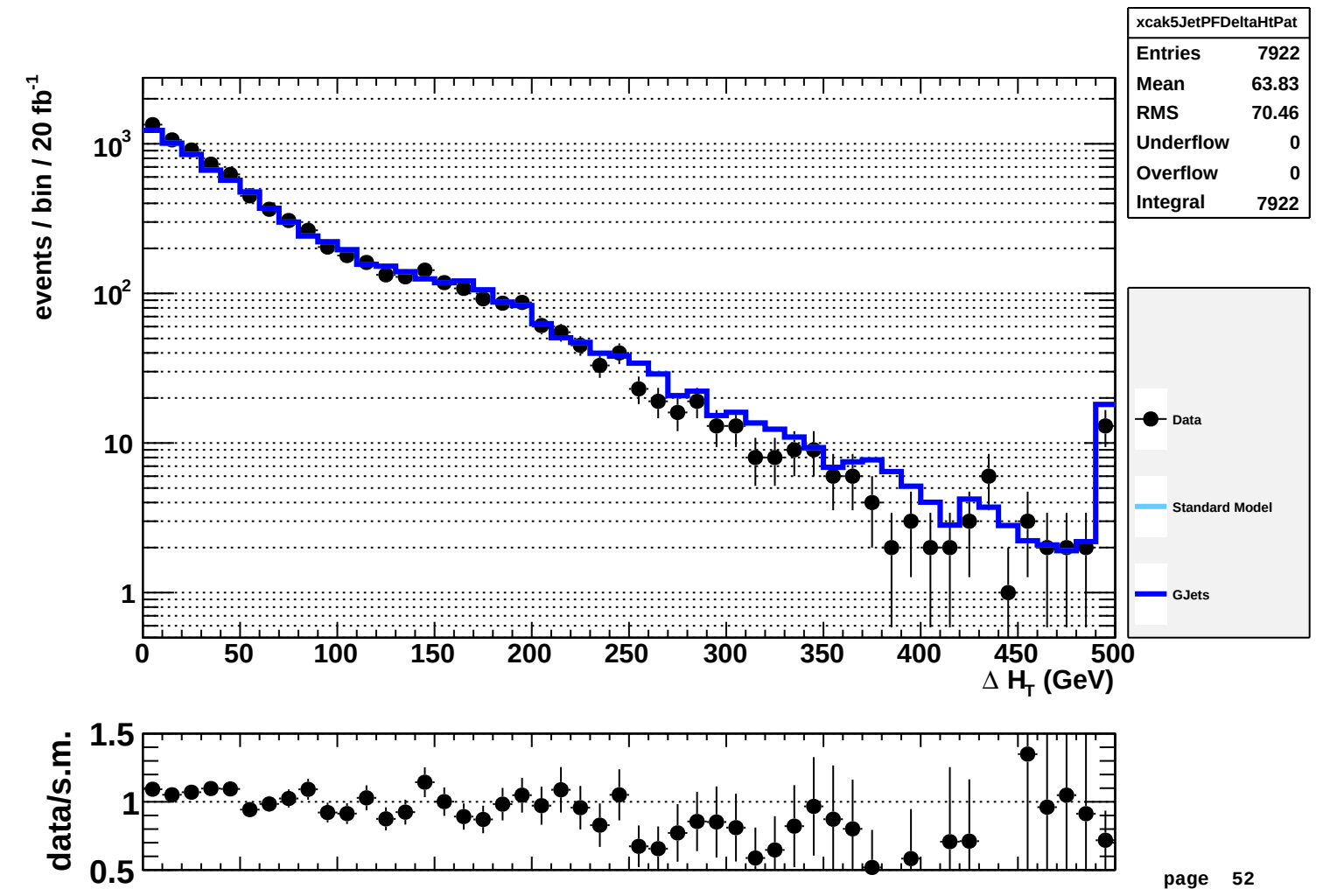

xcak5JetPFAlphaTFewBinsPat
Entries 7922
Mean 0.9458
RMS 0.3036
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
αT (using ET)
data/s.m.
1.5
1
0.5


xcak5JetPFAlphaTPat
Entries 7922
Mean 0.8105
RMS 0.3708
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
αT (using ET)
data/s.m.
1.5
1
0.5

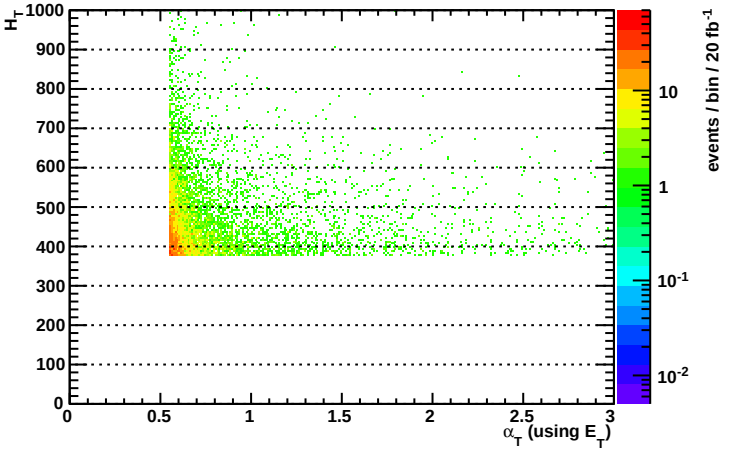

xcak5JetPFAlphaTRoughPat
Entries 7922
Mean 0.8114
RMS 0.3683
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
αT (using ET)
data/s.m.
1.5
1
0.5


xcak5JetPFAlphaTZoomPat
Entries 7922
Mean 0.59
RMS 0.01559
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^4
10^3
10^2
0.48
0.5
0.52
0.54
0.56
0.58
0.6
αT (using ET)
data/s.m.
1.5
1
0.5

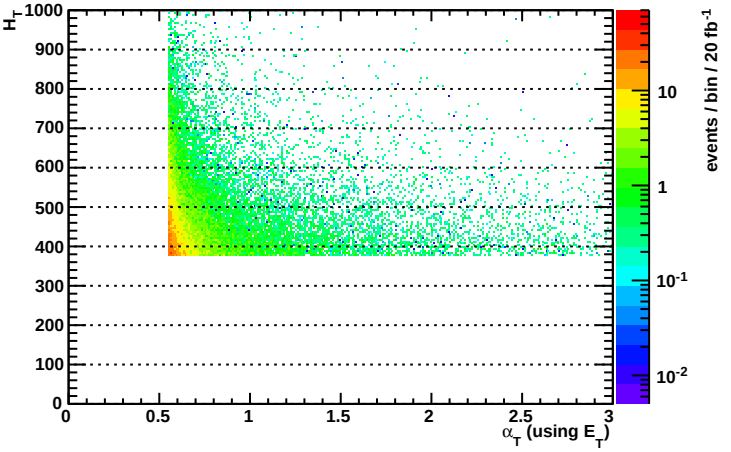

xcak5JetPFDeltaHtOverHtPat
Entries 7922
Mean 0.1334
RMS 0.1363
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
Δ HT/HT
data/s.m.
1.5
1
0.5


xcak5JetPFDeltaHtPat
Entries 7922
Mean 63.83
RMS 70.46
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
Δ HT (GeV)
data/s.m.

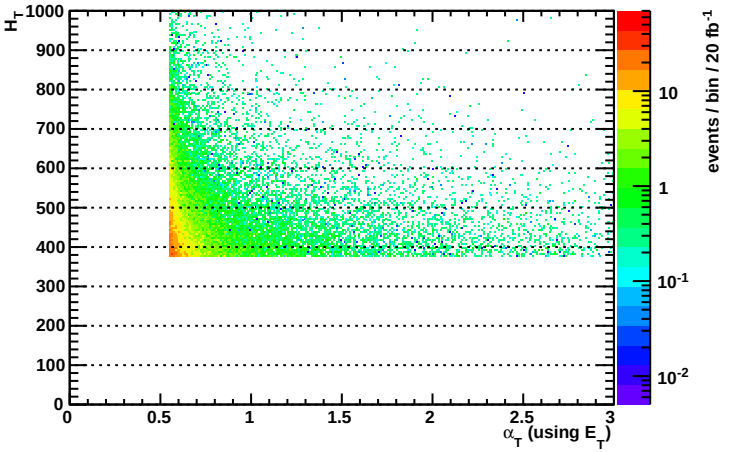
Data



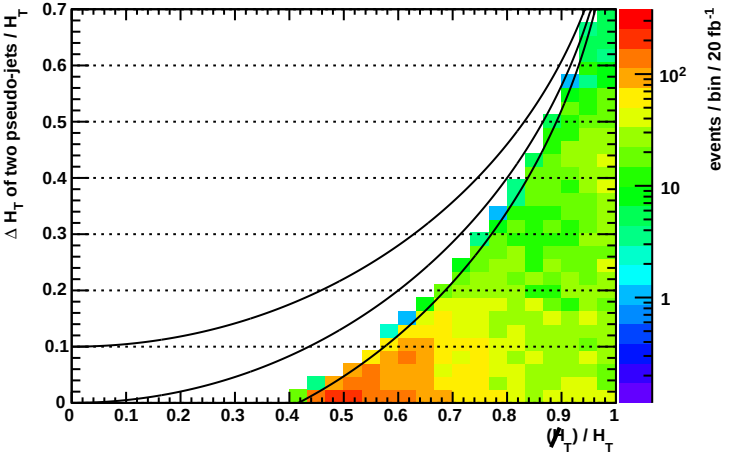
Standard Model



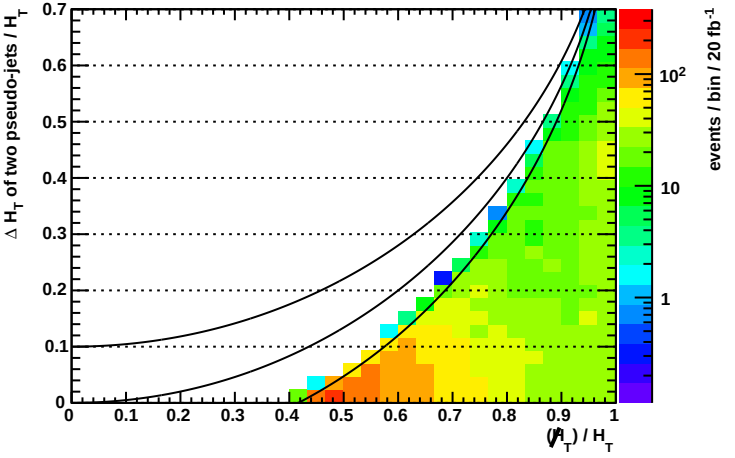
GJets



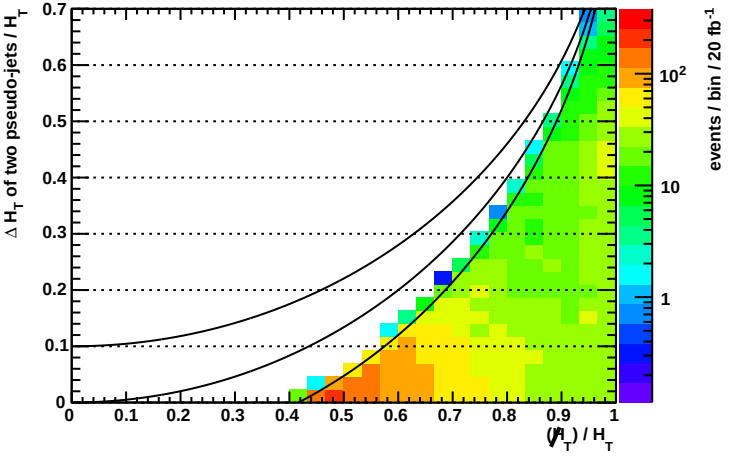
Data



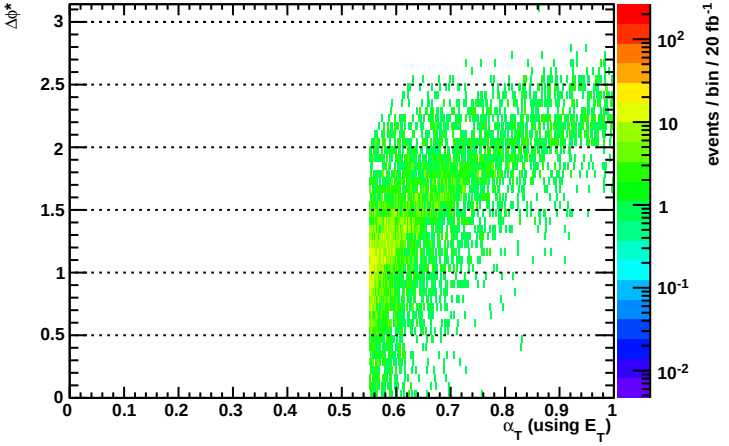
Standard Model



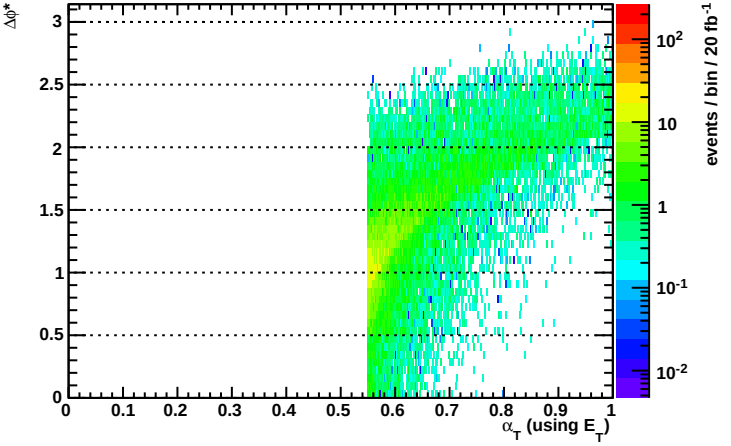
GJets



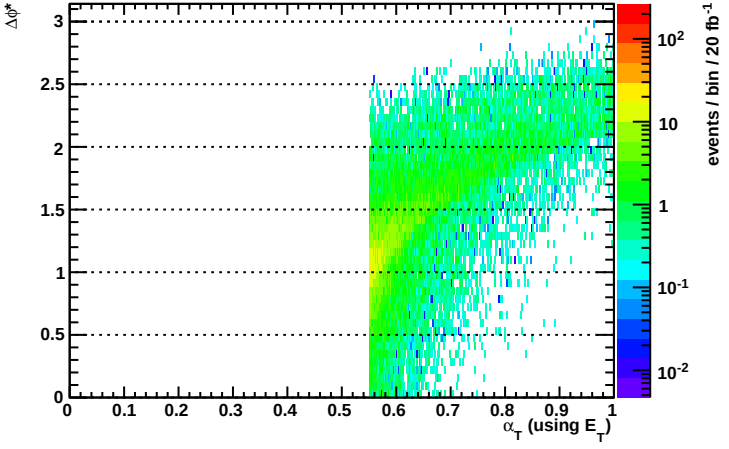
Data

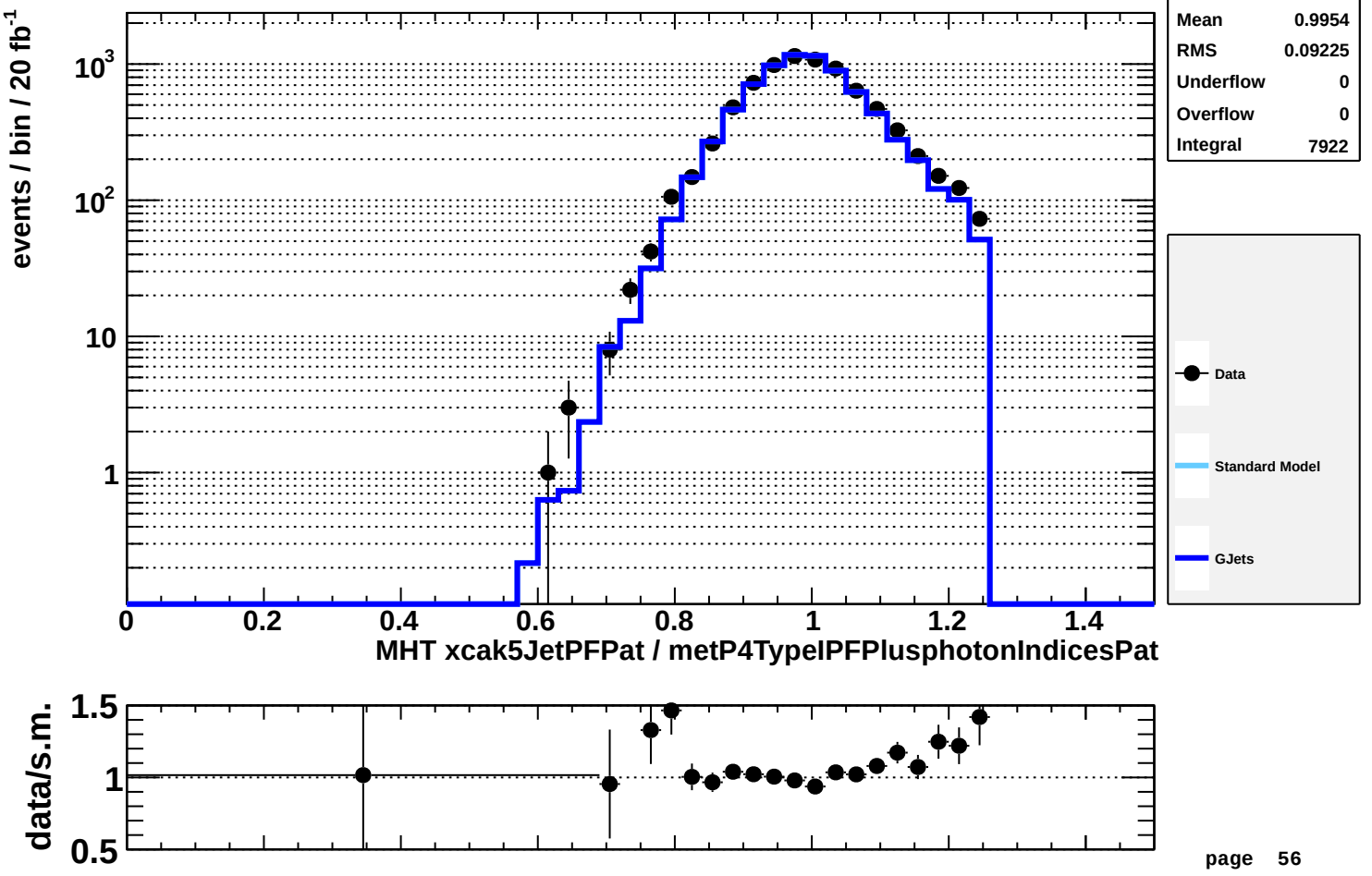


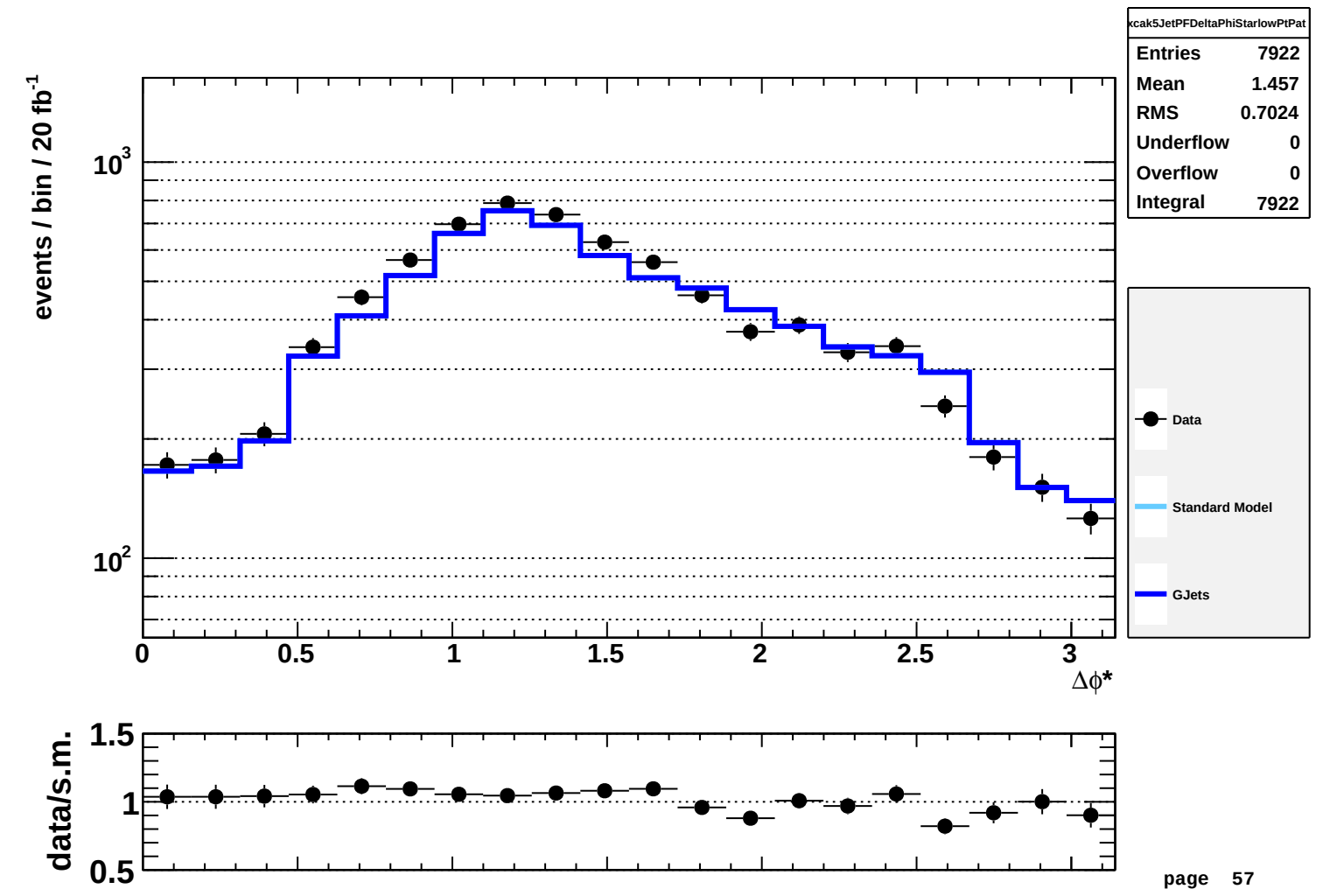
Standard Model

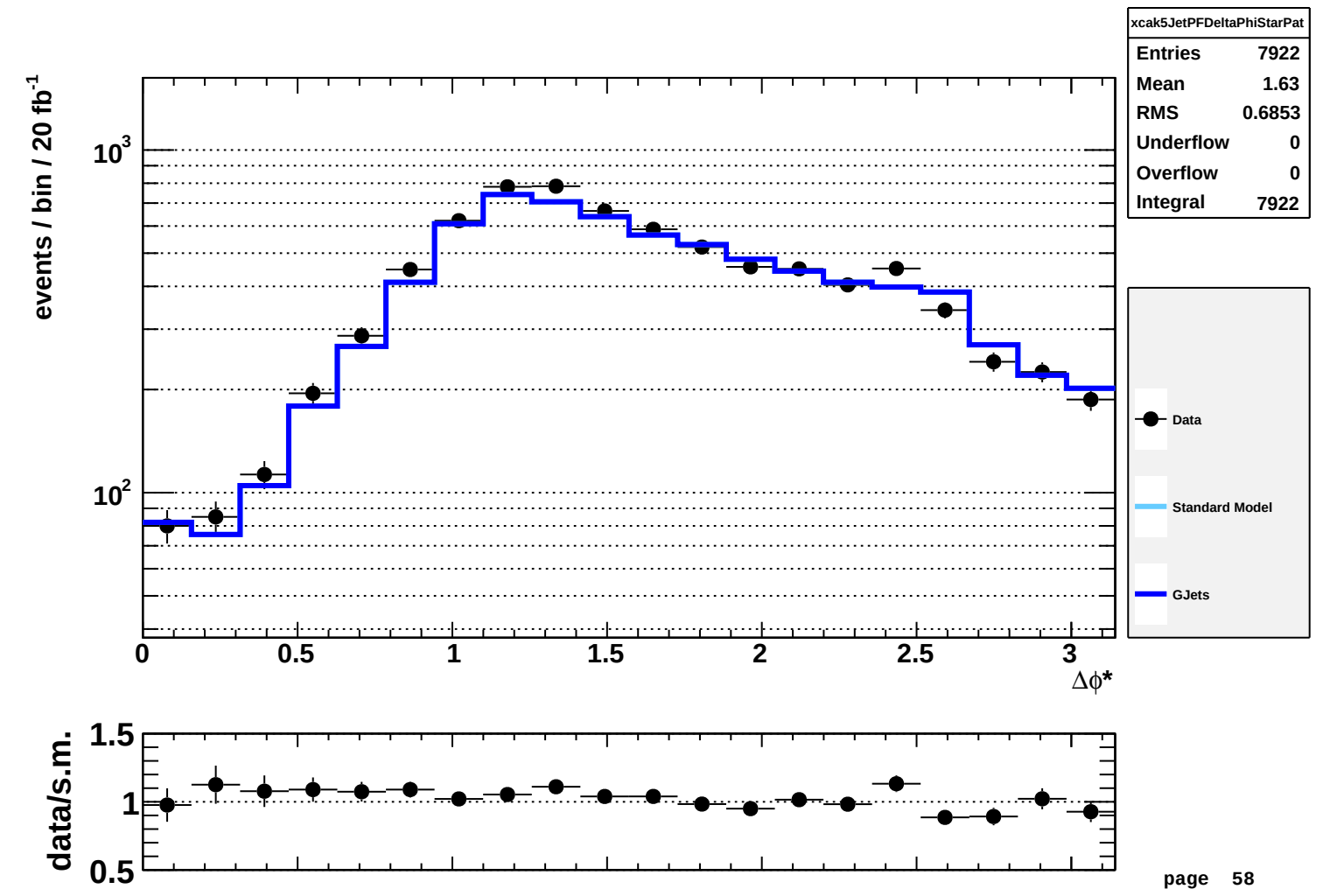


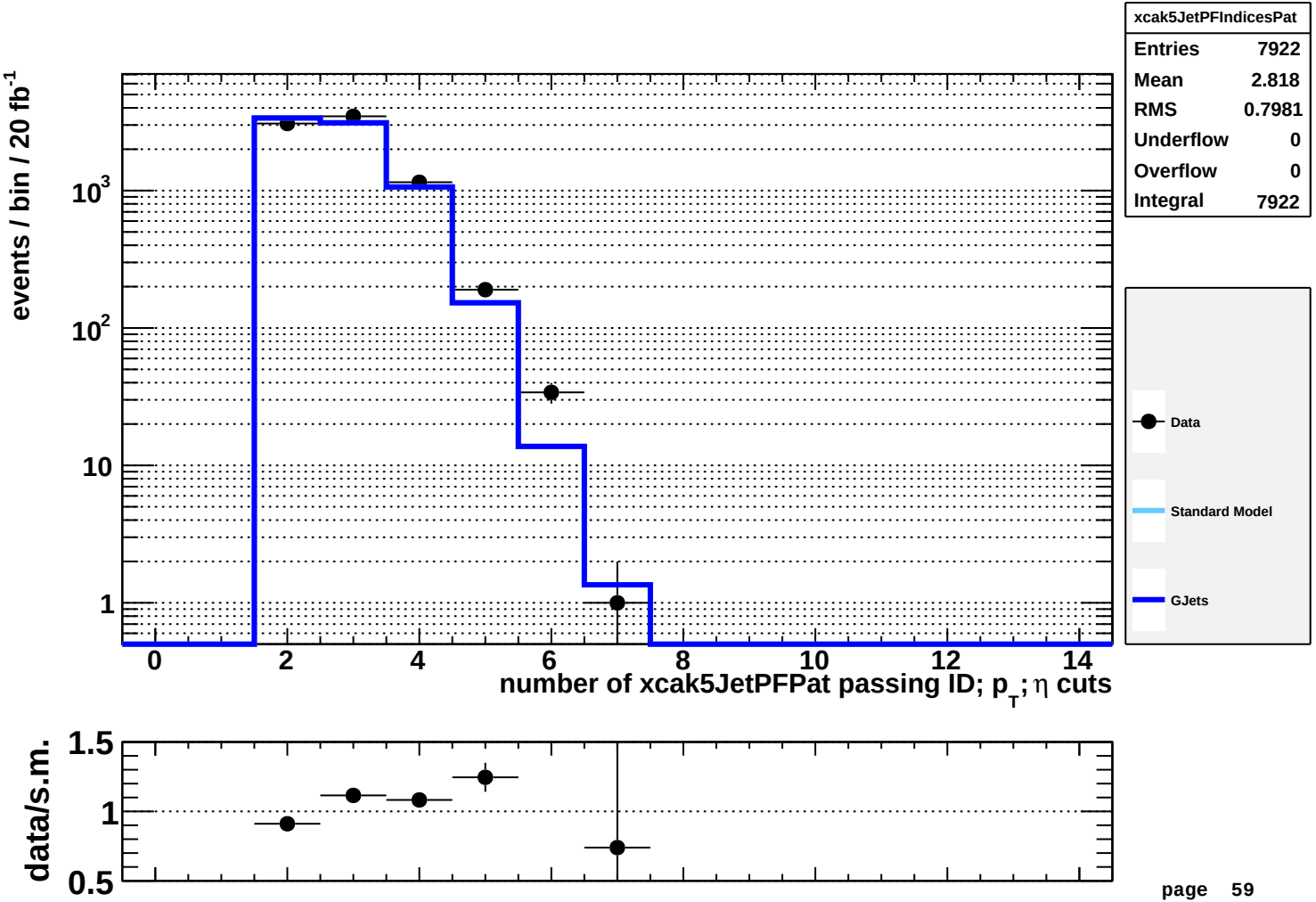
GJets

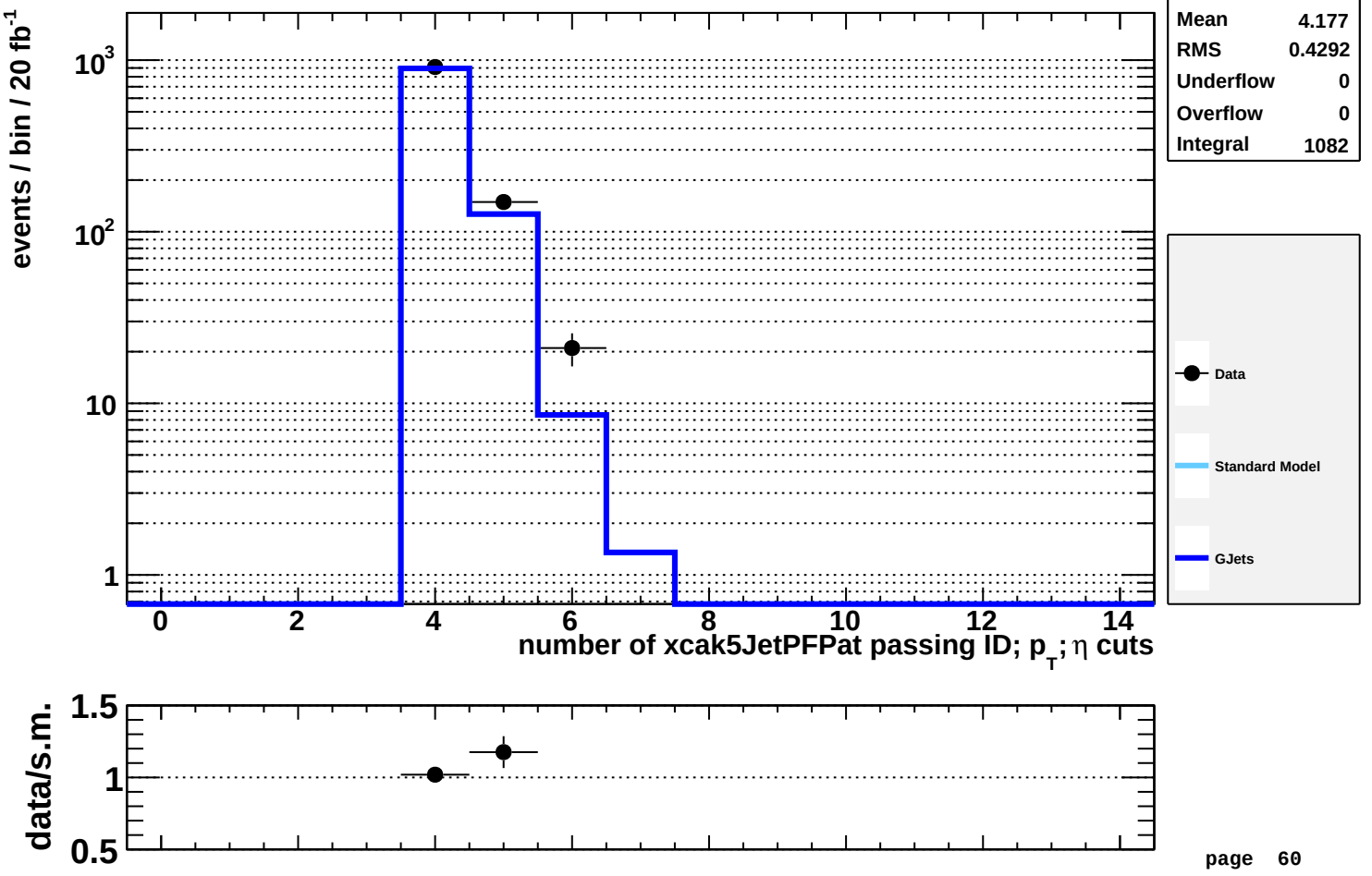


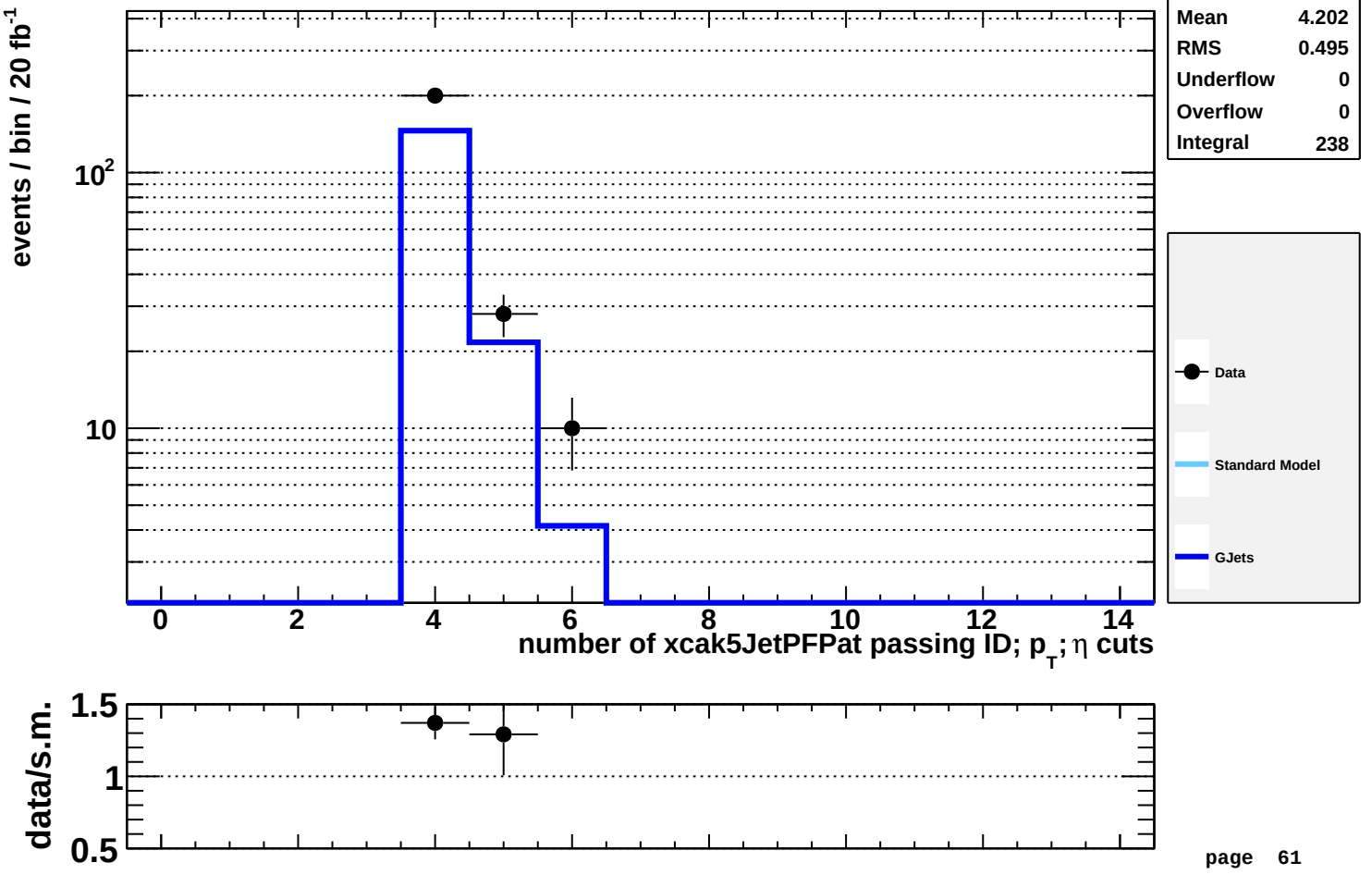

xcak5JetPFMhthighPtPatOvermetP4TypeIPFPlusphotonIndicesPa
Entries 7922
Mean 0.9954
RMS 0.09225
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
MHT xcak5JetPFPat / metP4TypeIPFPlusphotonIndicesPat
data/s.m.

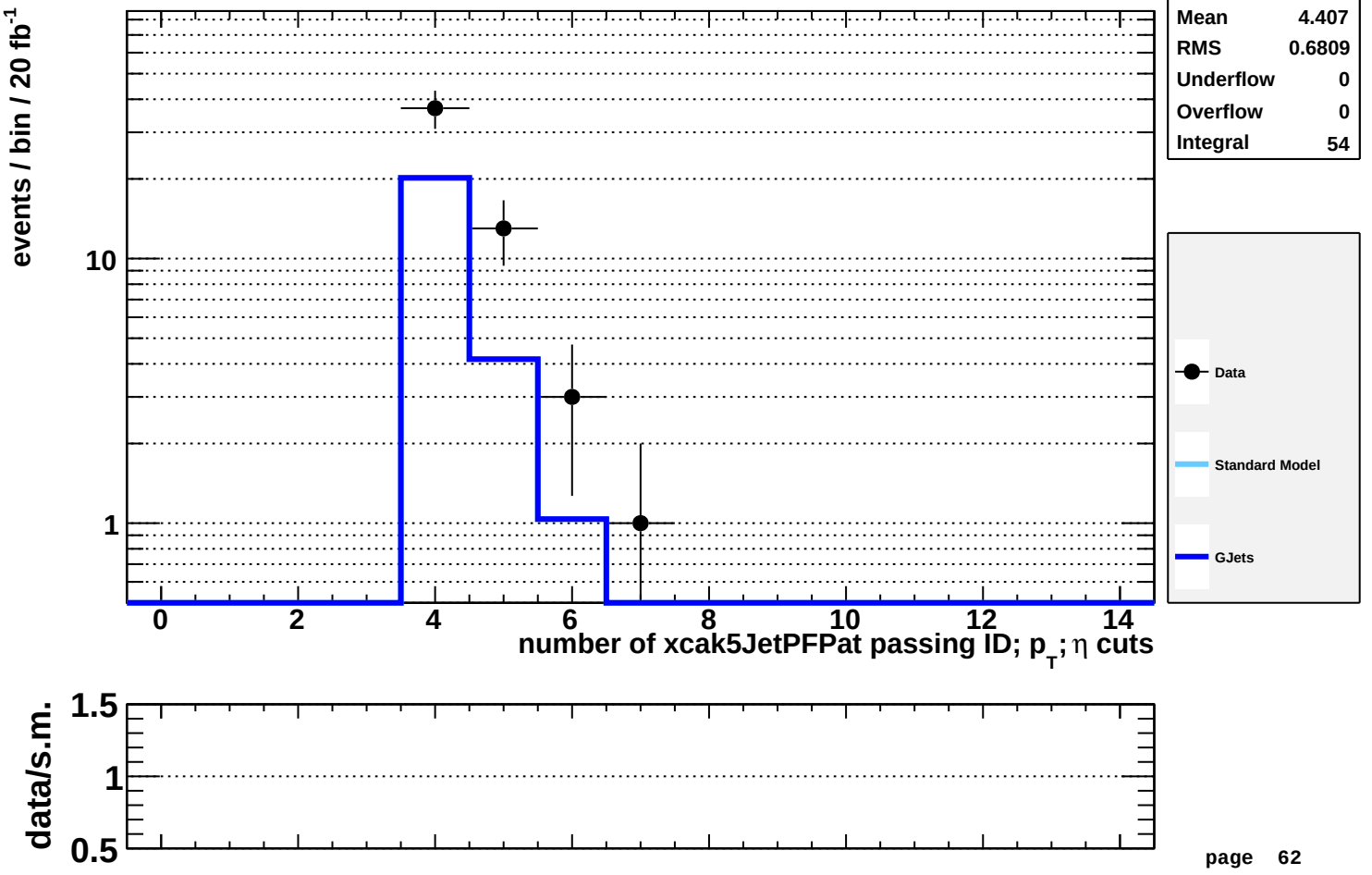

xcak5JetPFDeltaPhiStarlowPtPat
Entries 7922
Mean 1.457
RMS 0.7024
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
0
0.5
1
1.5
2
2.5
3
Δφ*
data/s.m.
1.5
1
0.5

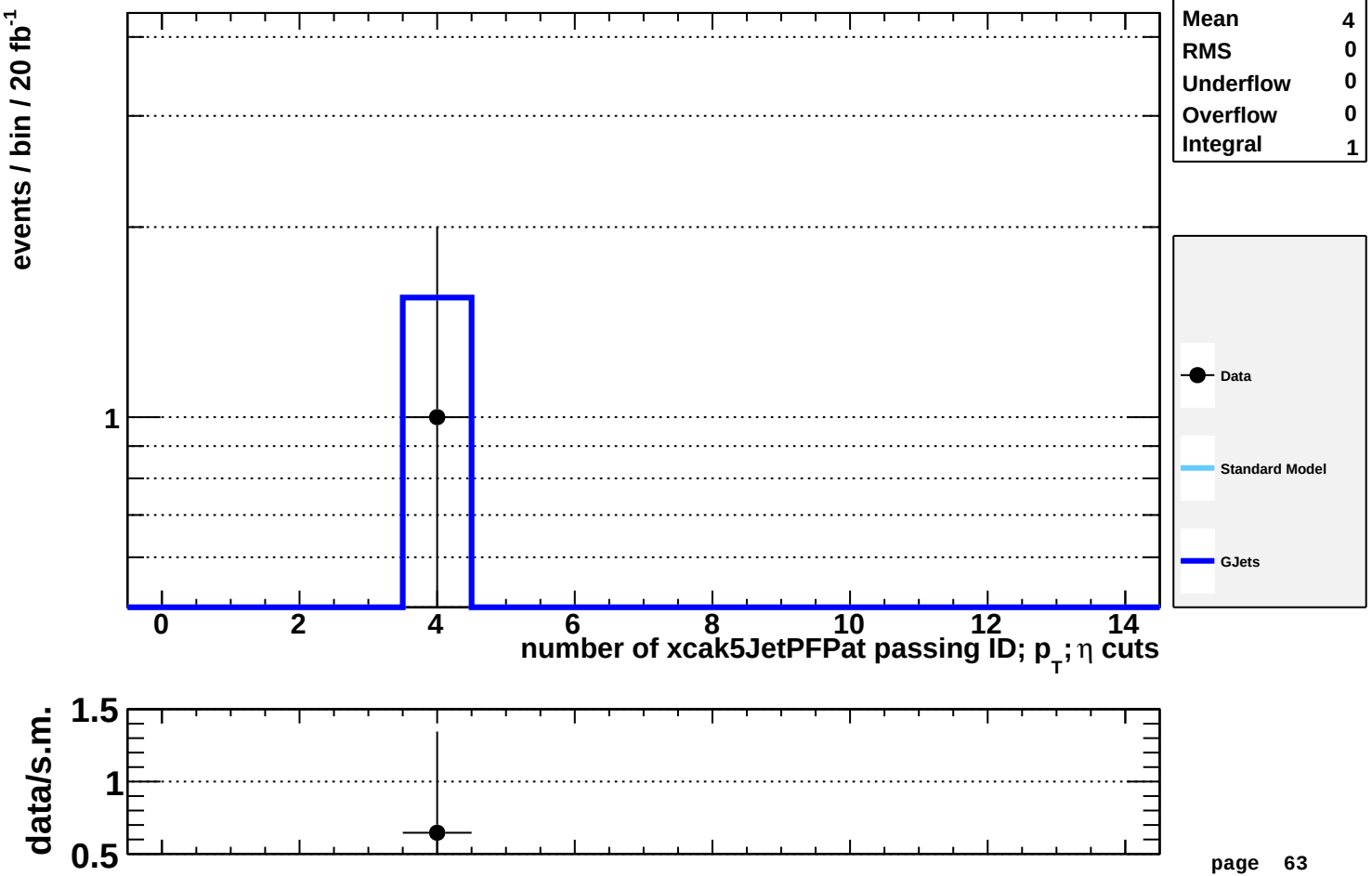

xcak5JetPFDeltaPhiStarPat
Entries 7922
Mean 1.63
RMS 0.6853
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
0
0.5
1
1.5
2
2.5
3
Δφ*
data/s.m.
1.5
1
0.5

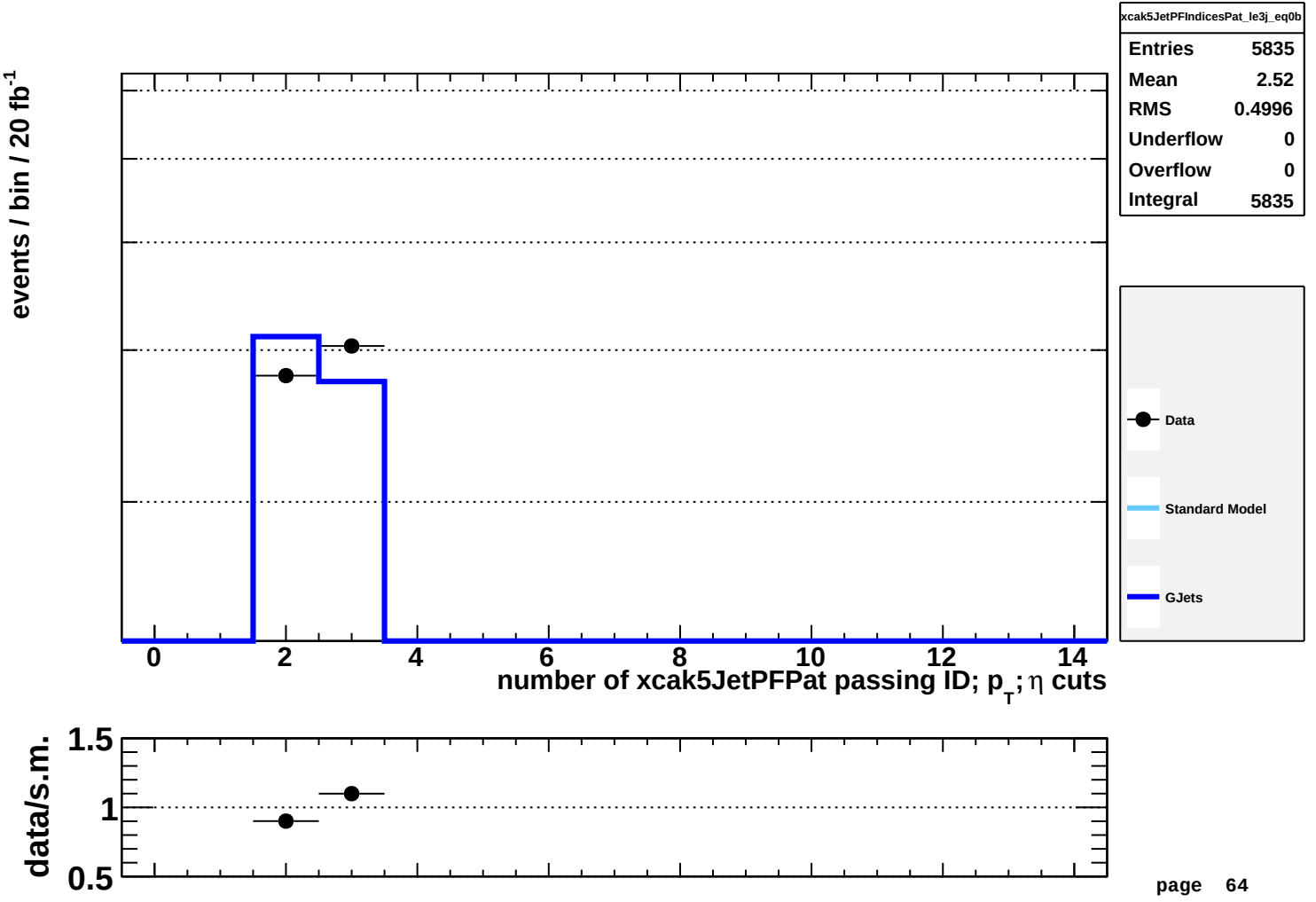

xcak5JetPFIndicesPat
Entries 7922
Mean 2.818
RMS 0.7981
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

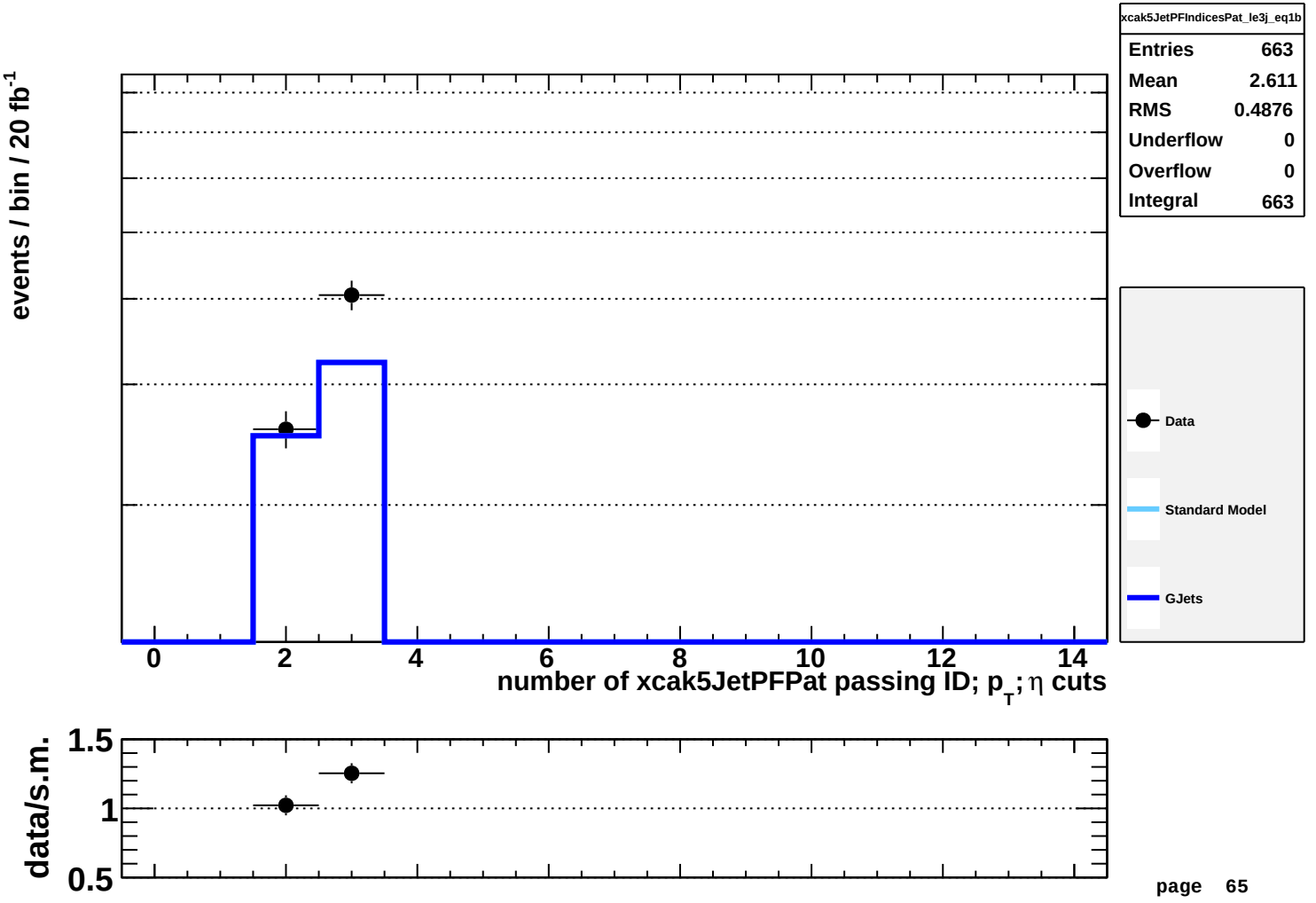

xcak5JetPFIndicesPat_ge4j_eq0b
Entries 1082
Mean 4.177
RMS 0.4292
Underflow 0
Overflow 0
Integral 1082
Data
Standard Model
GJets
events / bin / 20 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

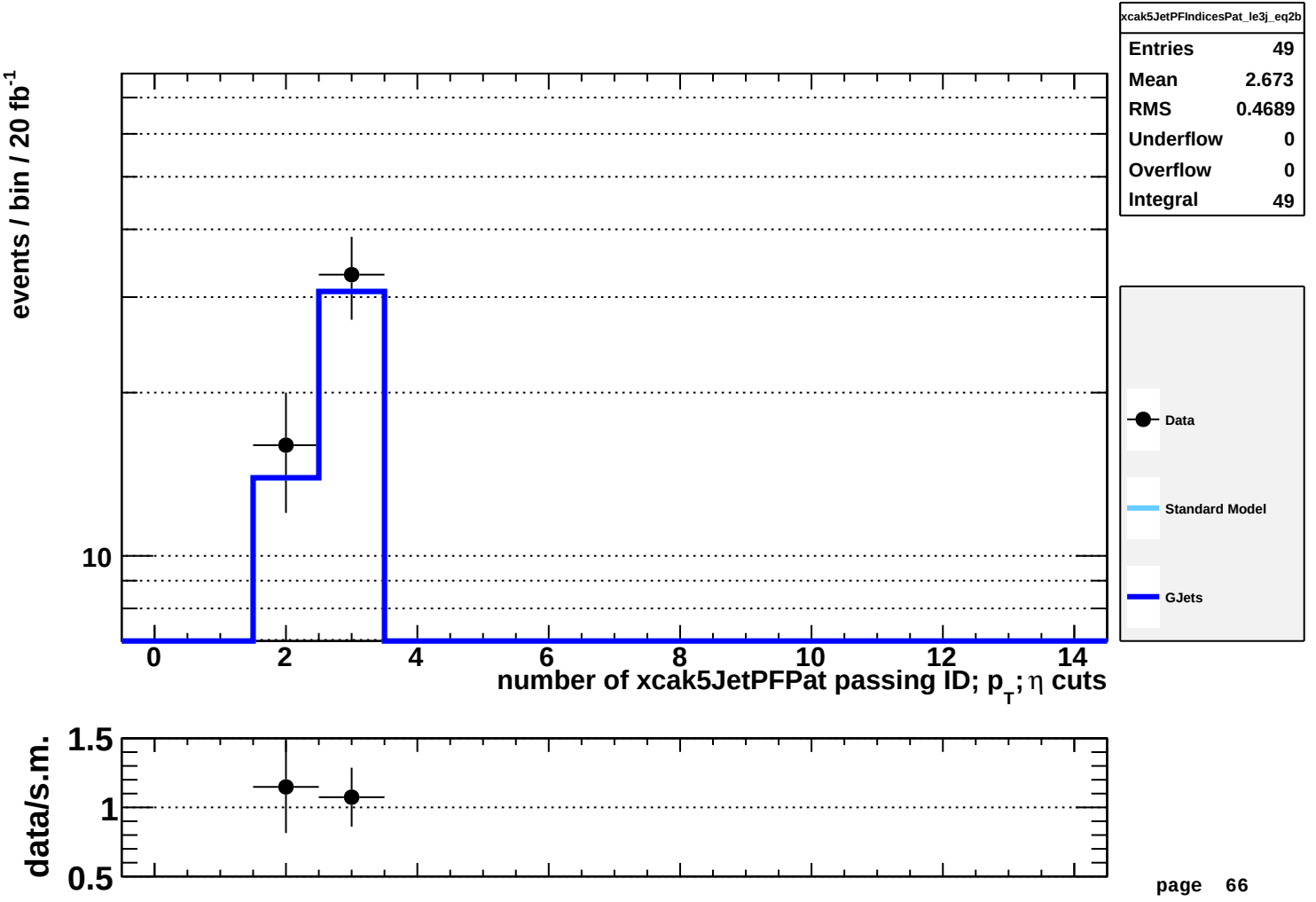

xcak5JetPFIndicesPat_ge4j_eq1b
Entries 238
Mean 4.202
RMS 0.495
Underflow 0
Overflow 0
Integral 238
Data
Standard Model
GJets
events / bin / 20 fb-1
10²
10
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

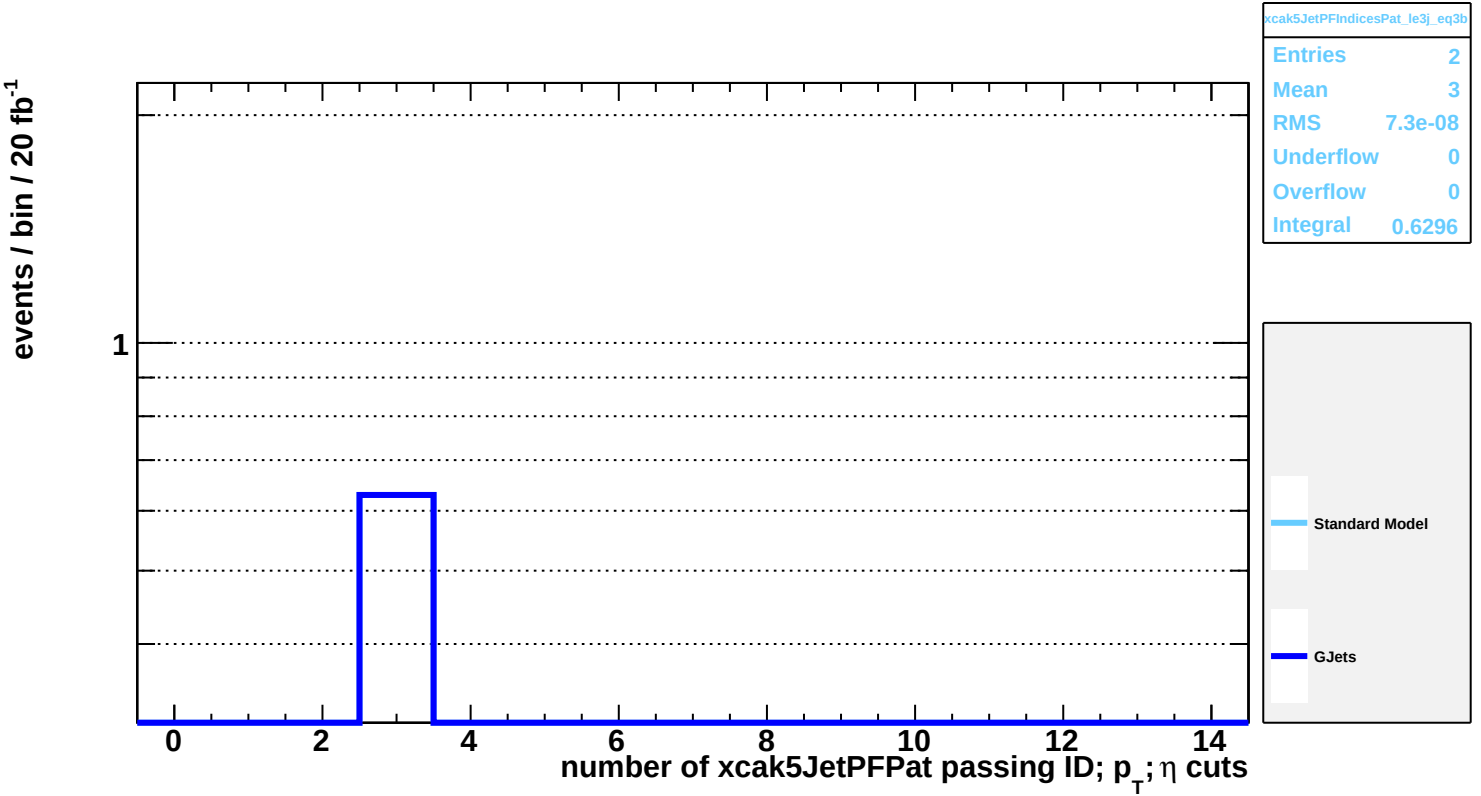

xcak5JetPFIndicesPat_ge4j_eq2b
Entries 54
Mean 4.407
RMS 0.6809
Underflow 0
Overflow 0
Integral 54
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

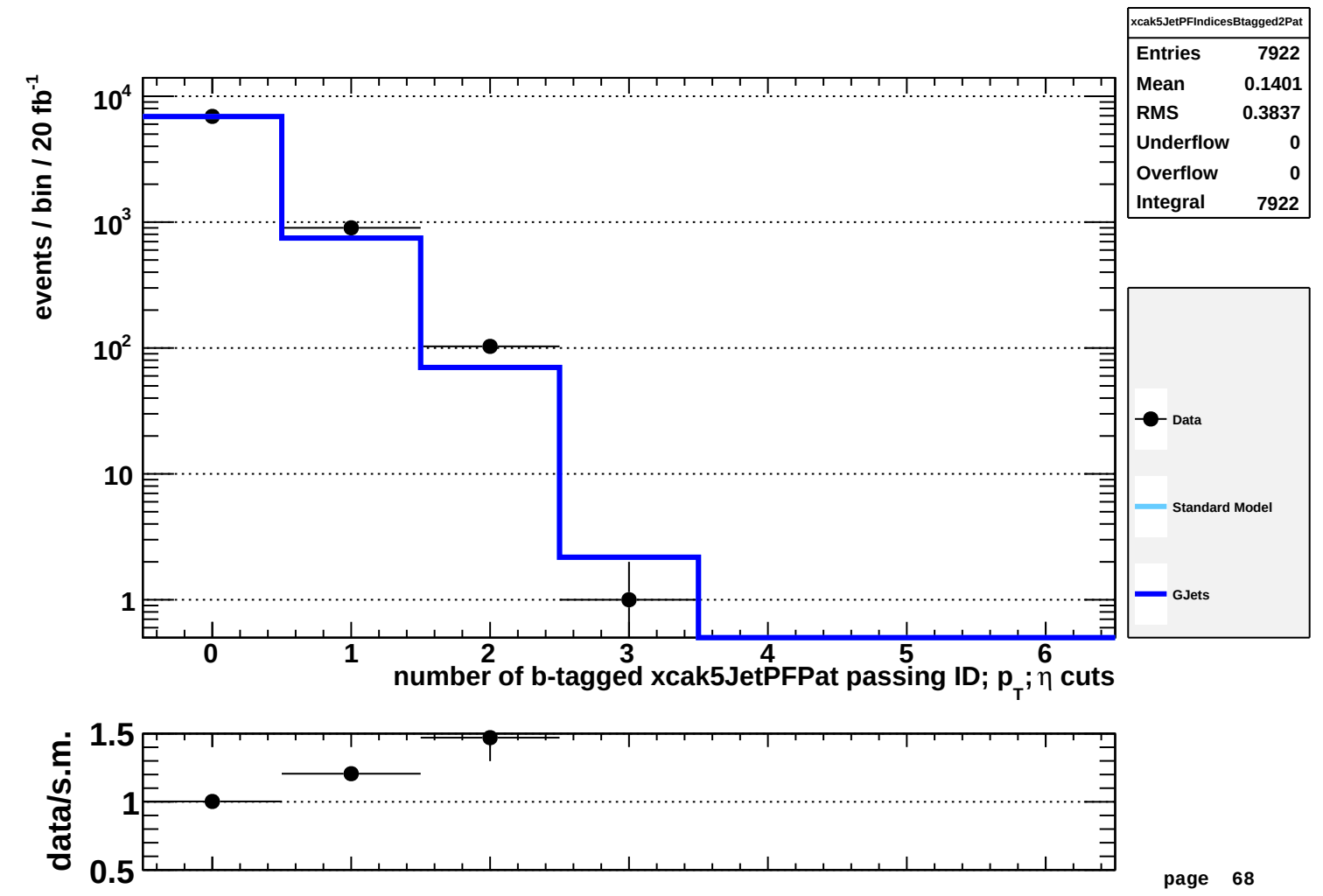

xcak5JetPFIndicesPat_ge4j_eq3b
Entries 1
Mean 4
RMS 0
Underflow 0
Overflow 0
Integral 1
Data
Standard Model
GJets
events / bin / 20 fb-1
1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

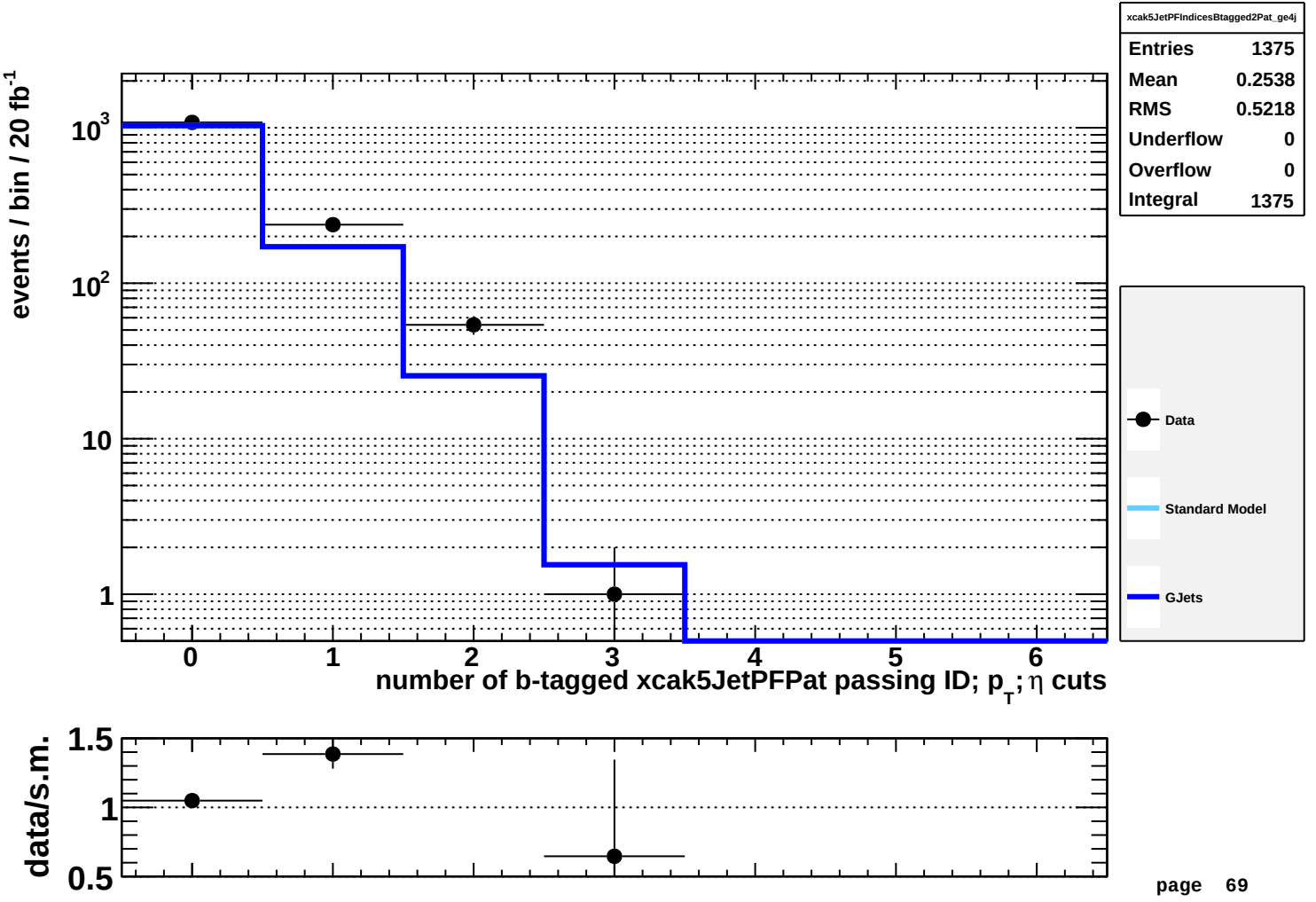

xcak5JetPFIndicesPat_le3j_eq0b
Entries 5835
Mean 2.52
RMS 0.4996
Underflow 0
Overflow 0
Integral 5835
Data
Standard Model
GJets
events / bin / 20 fb-1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

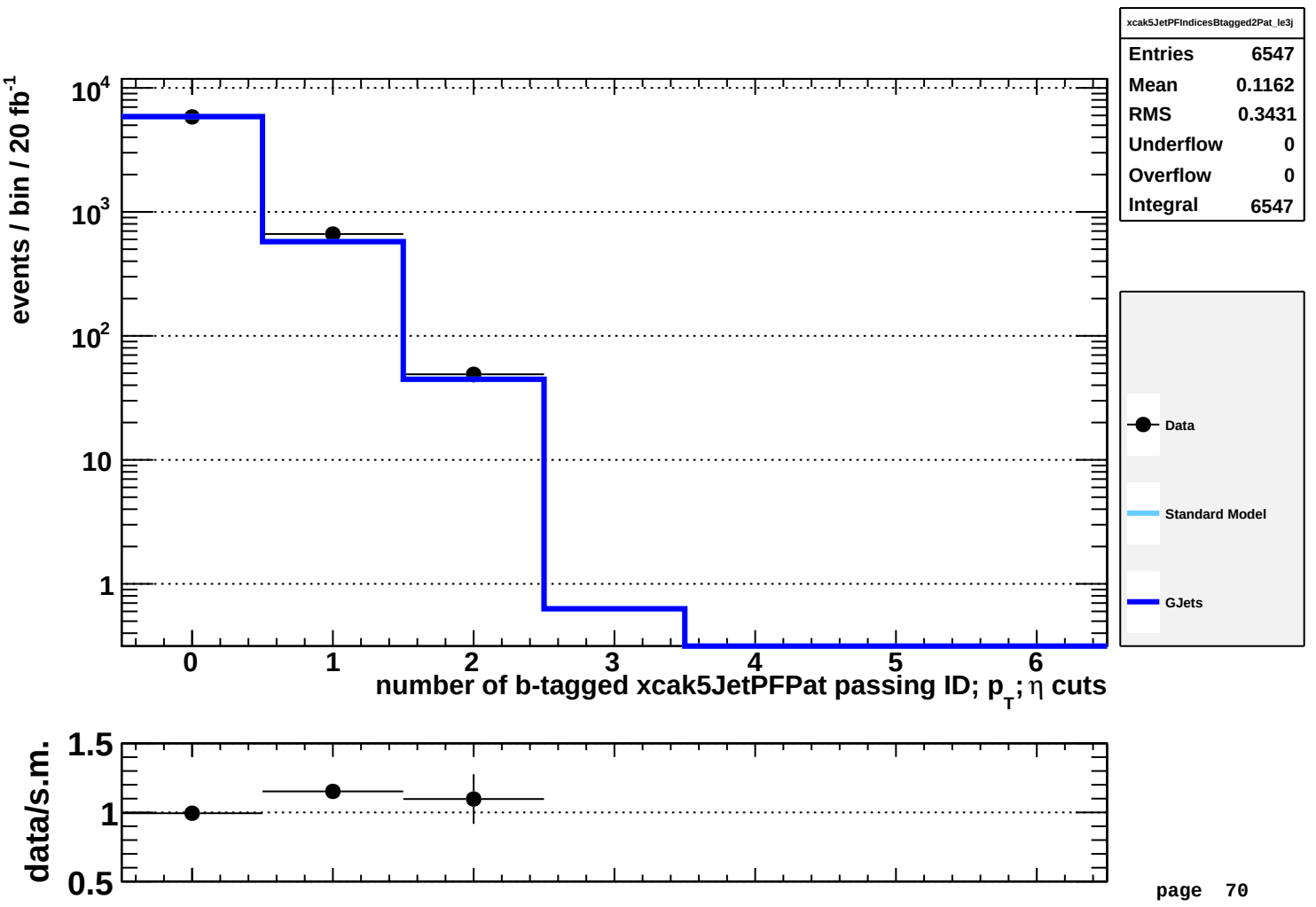

xcak5JetPFIndicesPat_le3j_eq1b
Entries 663
Mean 2.611
RMS 0.4876
Underflow 0
Overflow 0
Integral 663
Data
Standard Model
GJets
events / bin / 20 fb-1
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
0
2
4
6
8
10
12
14
0.5
1
1.5


xcak5JetPFIndicesPat_le3j_eq2b
Entries 49
Mean 2.673
RMS 0.4689
Underflow 0
Overflow 0
Integral 49
Data
Standard Model
GJets
events / bin / 20 fb-1
10
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts
data/s.m.
1.5
1
0.5

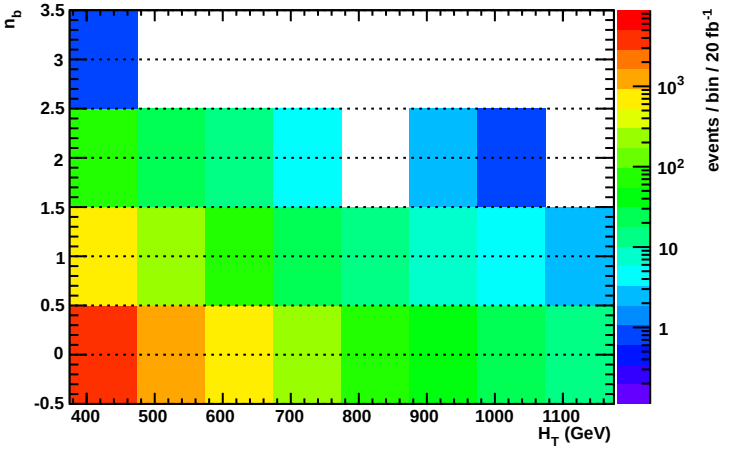

xcak5JetPFIndicesPat_le3j_eq3b
Entries 2
Mean 3
RMS 7.3e-08
Underflow 0
Overflow 0
Integral 0.6296
Standard Model
GJets
events / bin / 20 fb-1
1
0
2
4
6
8
10
12
14
number of xcak5JetPFPat passing ID; pT; η cuts


xcak5JetPFIndicesBtagged2Pat
Entries 7922
Mean 0.1401
RMS 0.3837
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

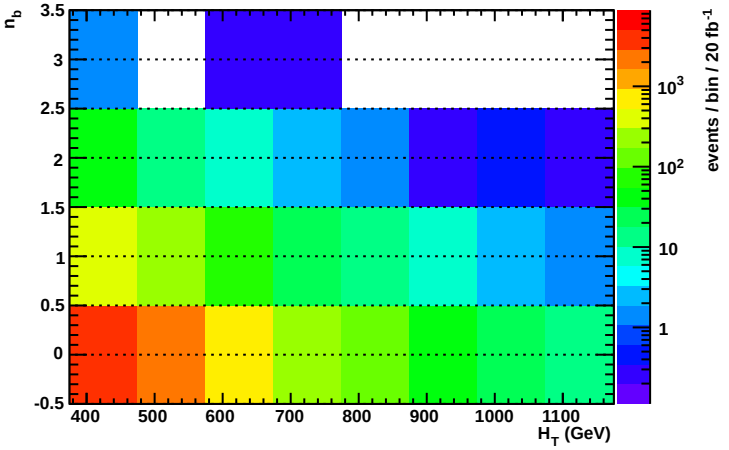

xcak5JetPFIndicesBtagged2Pat_ge4j
Entries 1375
Mean 0.2538
RMS 0.5218
Underflow 0
Overflow 0
Integral 1375
Data
Standard Model
GJets
events / bin / 20 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.


xcak5JetPFIndicesBtagged2Pat_le3j
Entries 6547
Mean 0.1162
RMS 0.3431
Underflow 0
Overflow 0
Integral 6547
Data
Standard Model
GJets
events / bin / 20 fb-1
number of b-tagged xcak5JetPFPat passing ID; pT; η cuts
data/s.m.

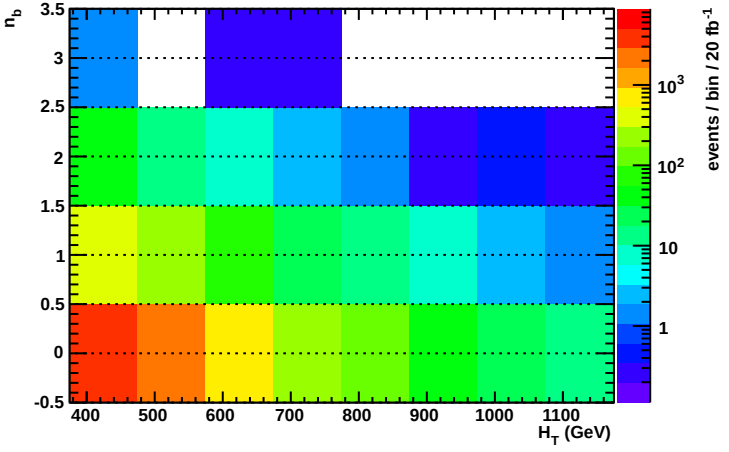
Data



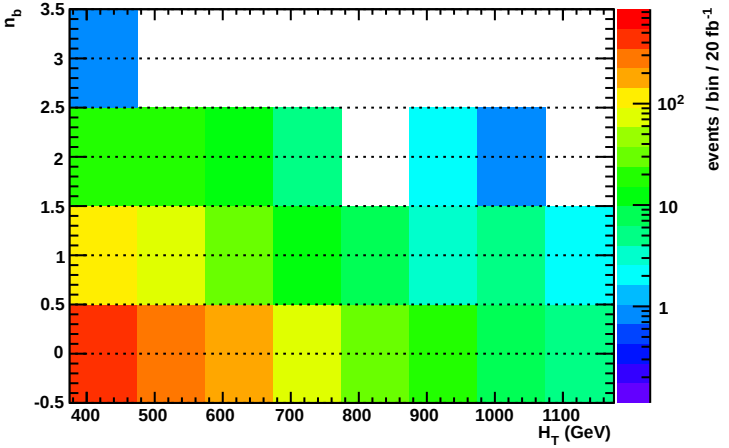
Standard Model



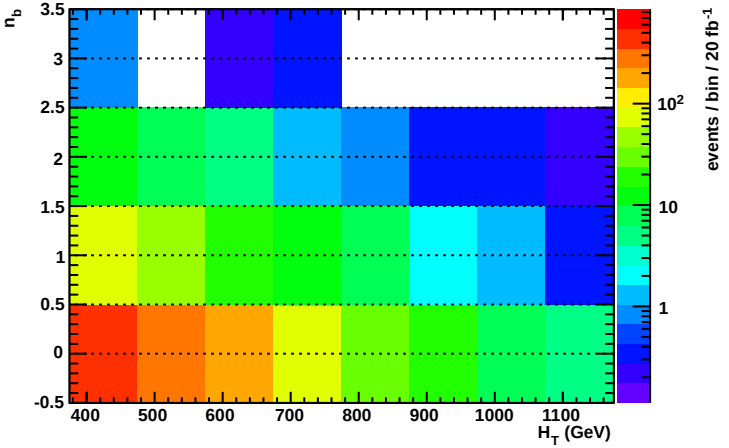
GJets



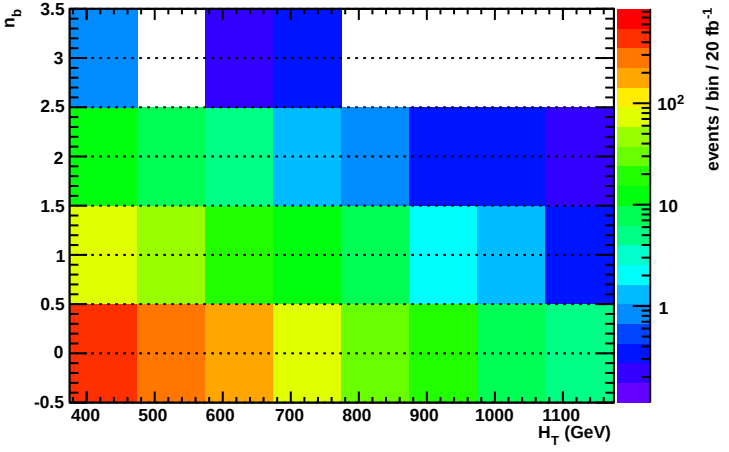
Data



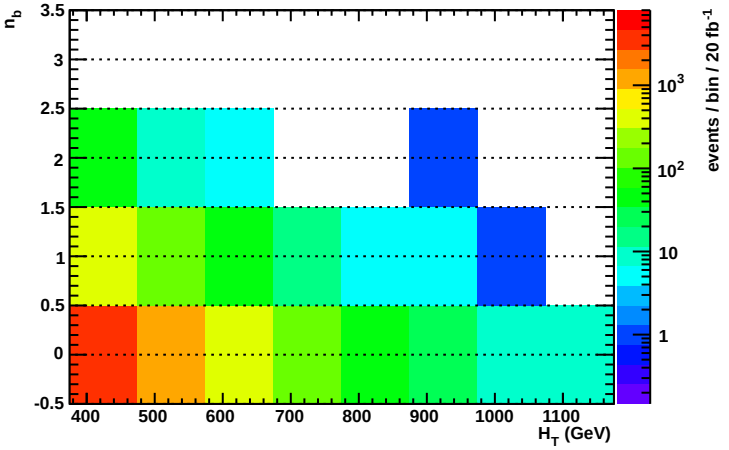
Standard Model



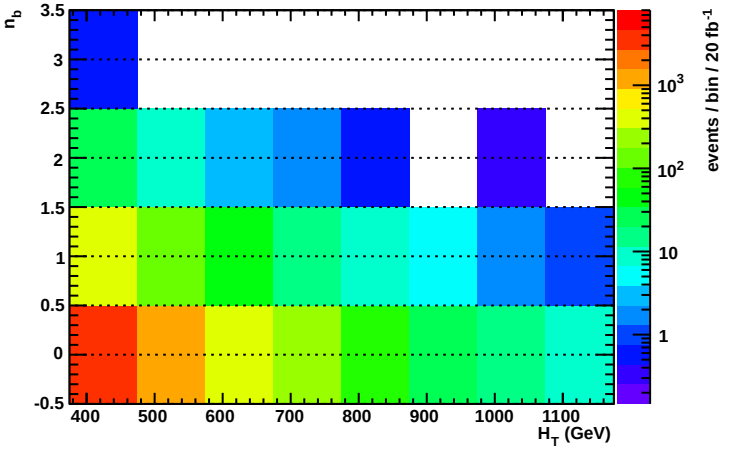
GJets



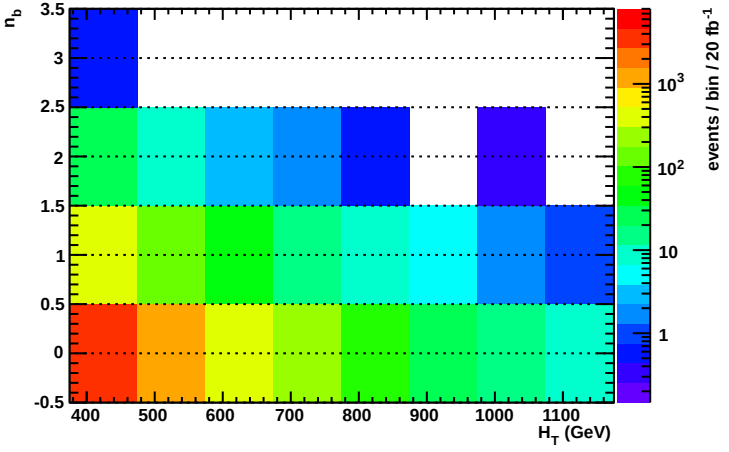
Data

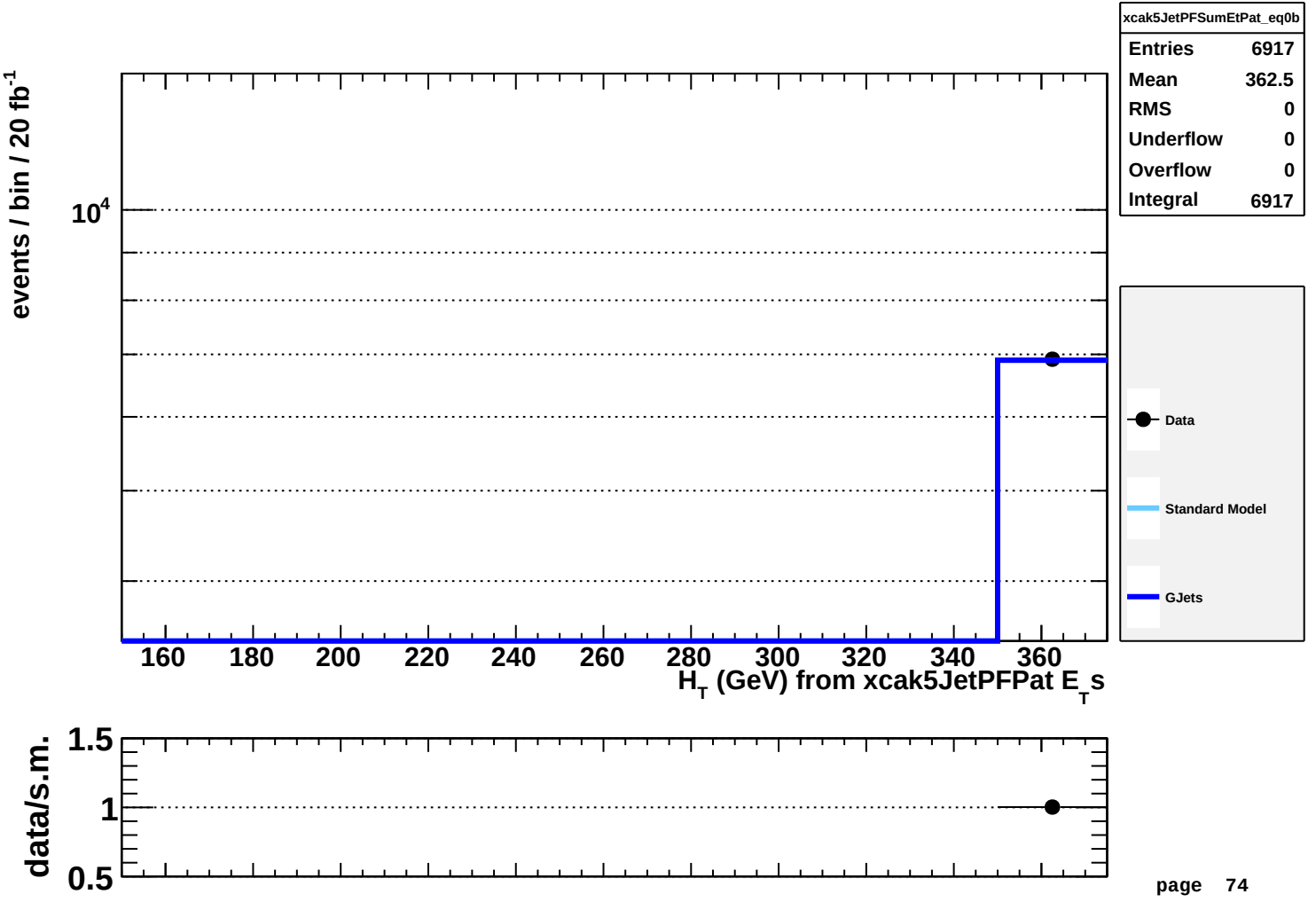


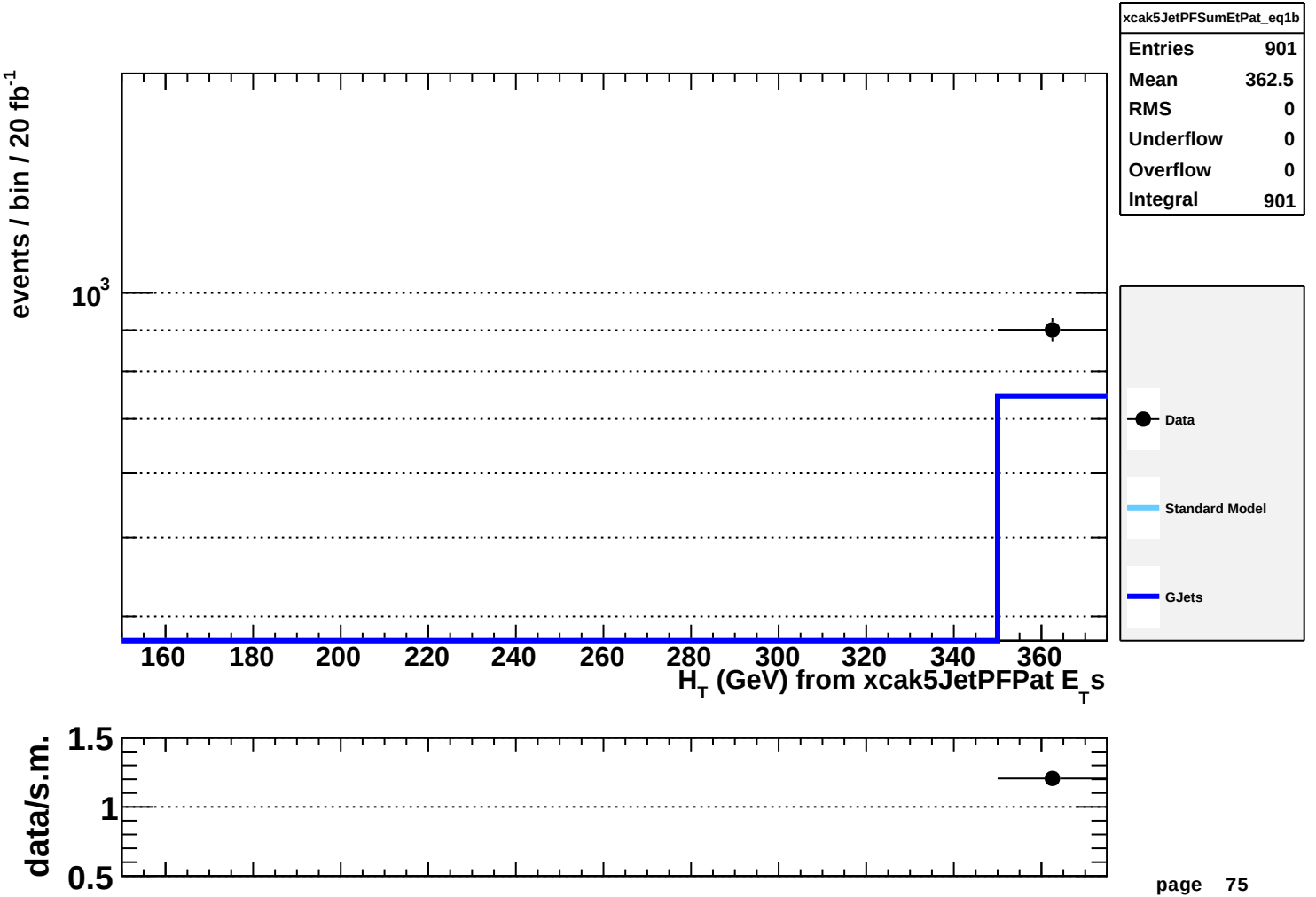
Standard Model

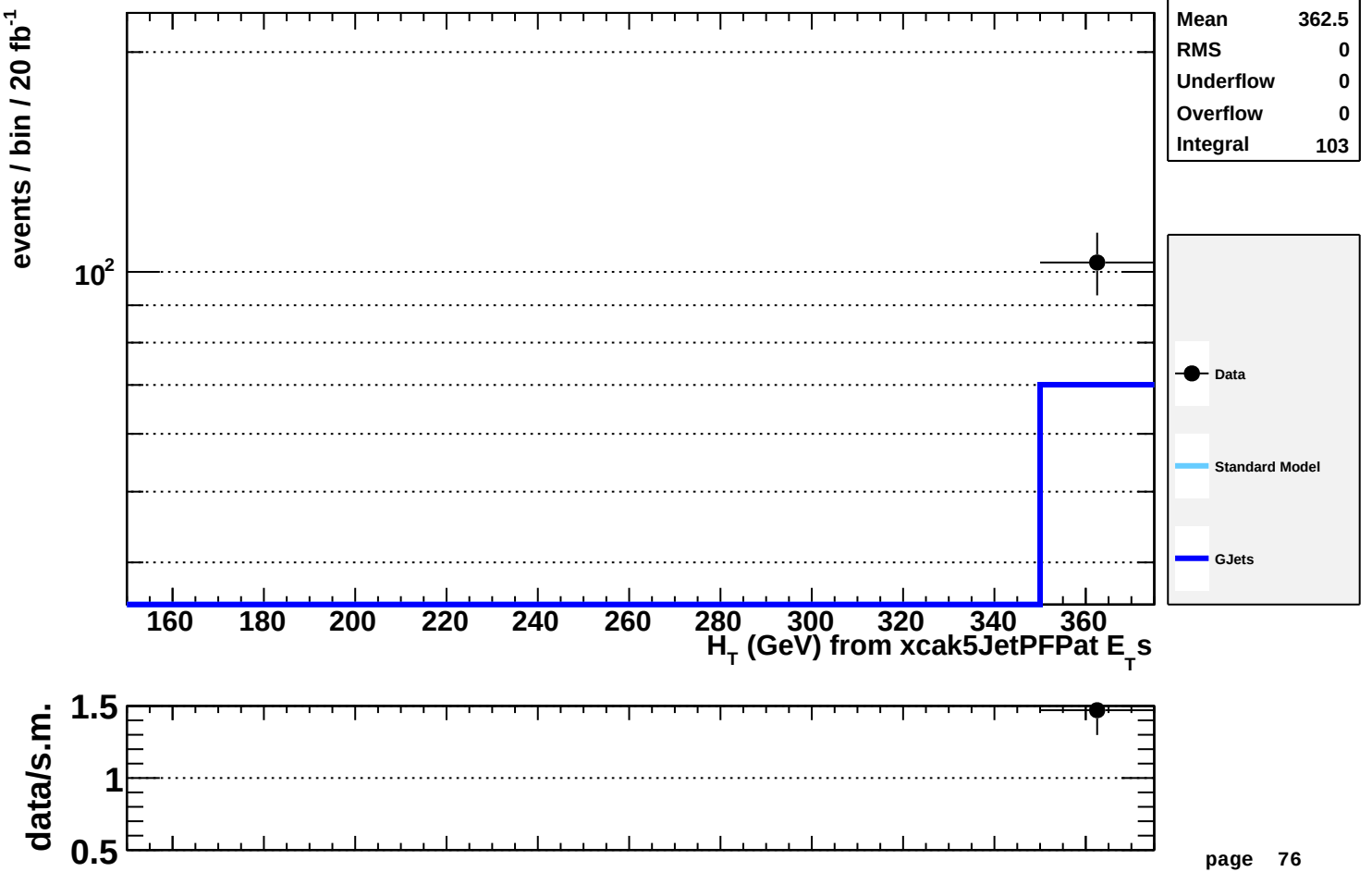


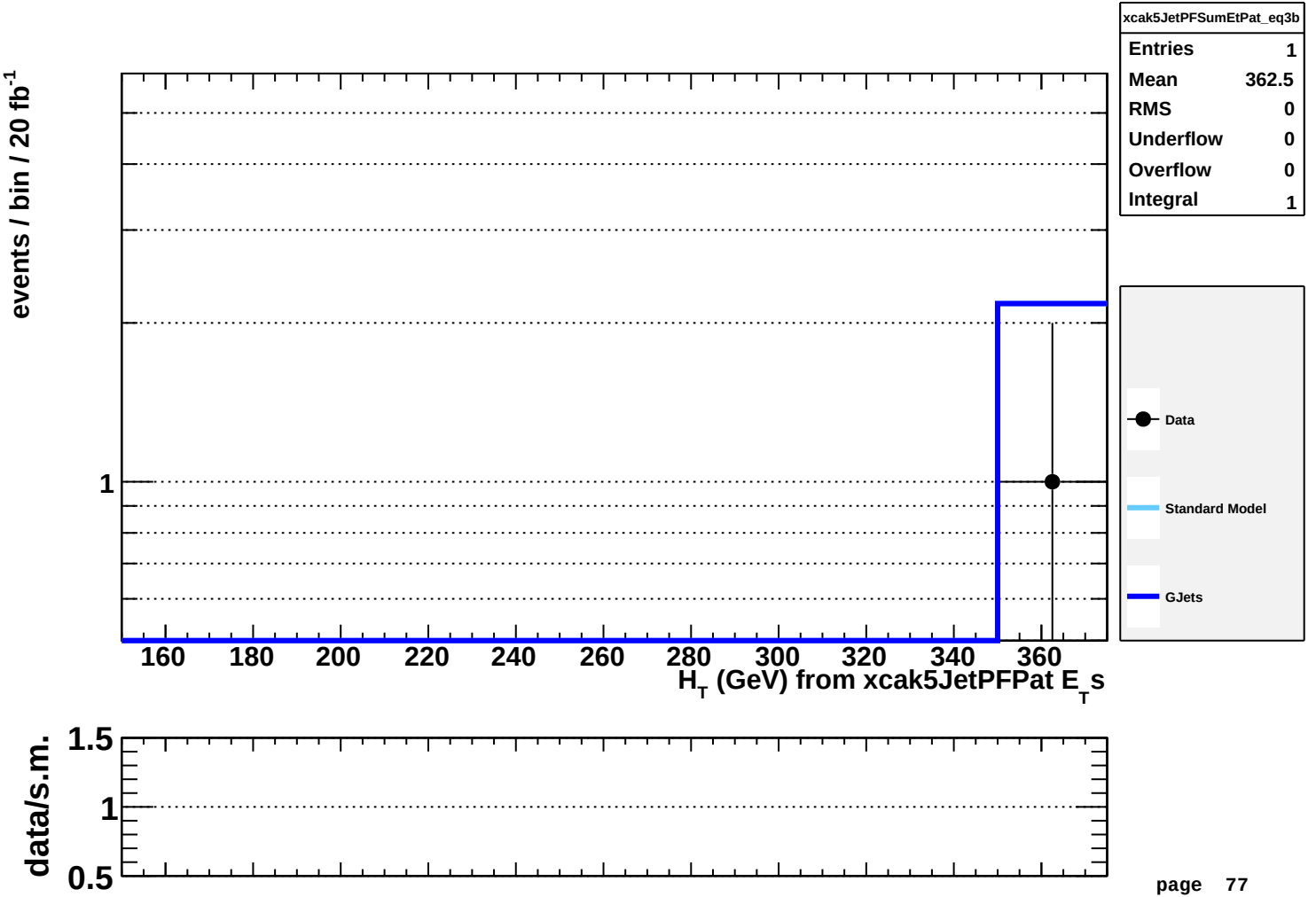
GJets

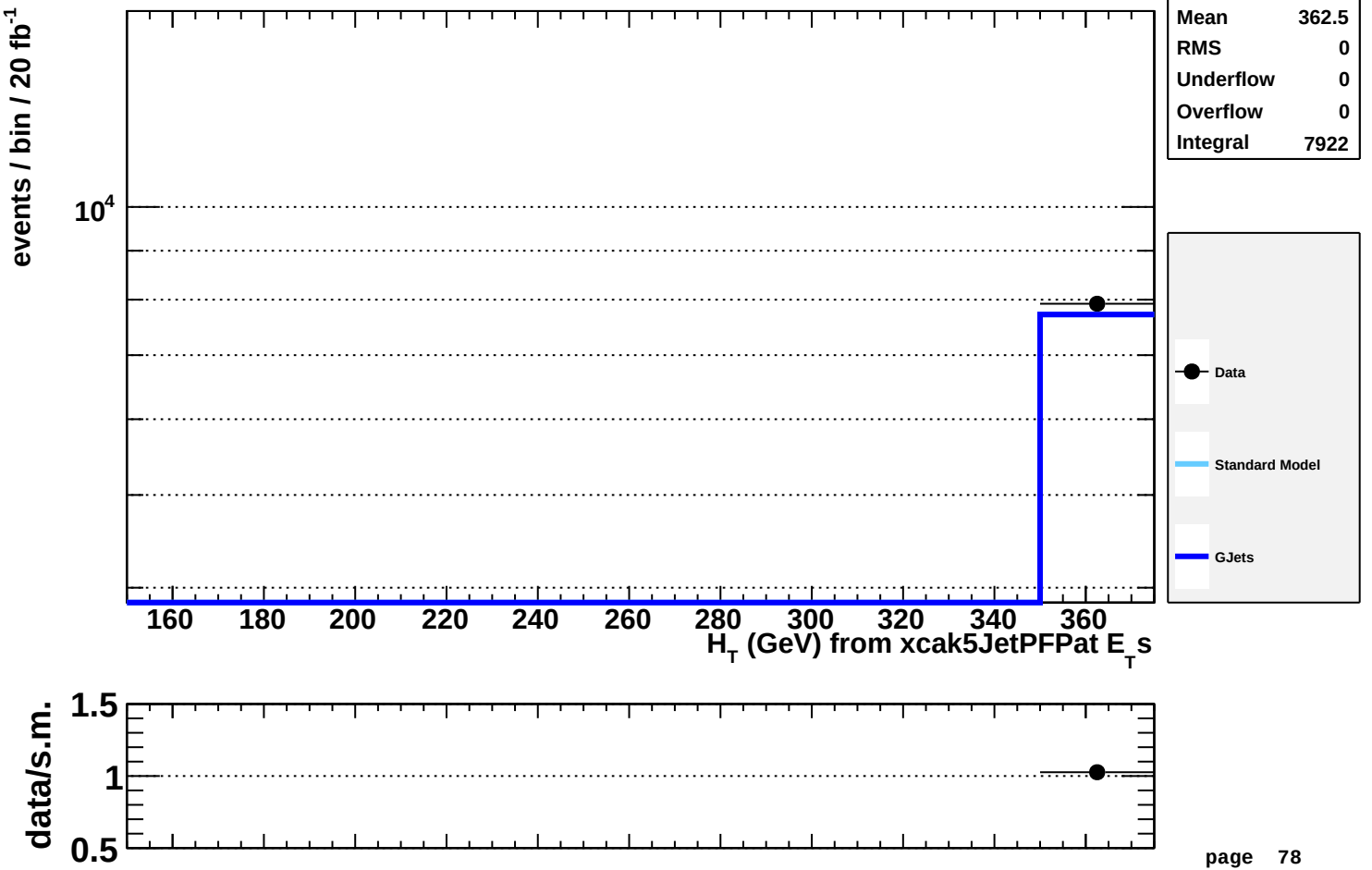


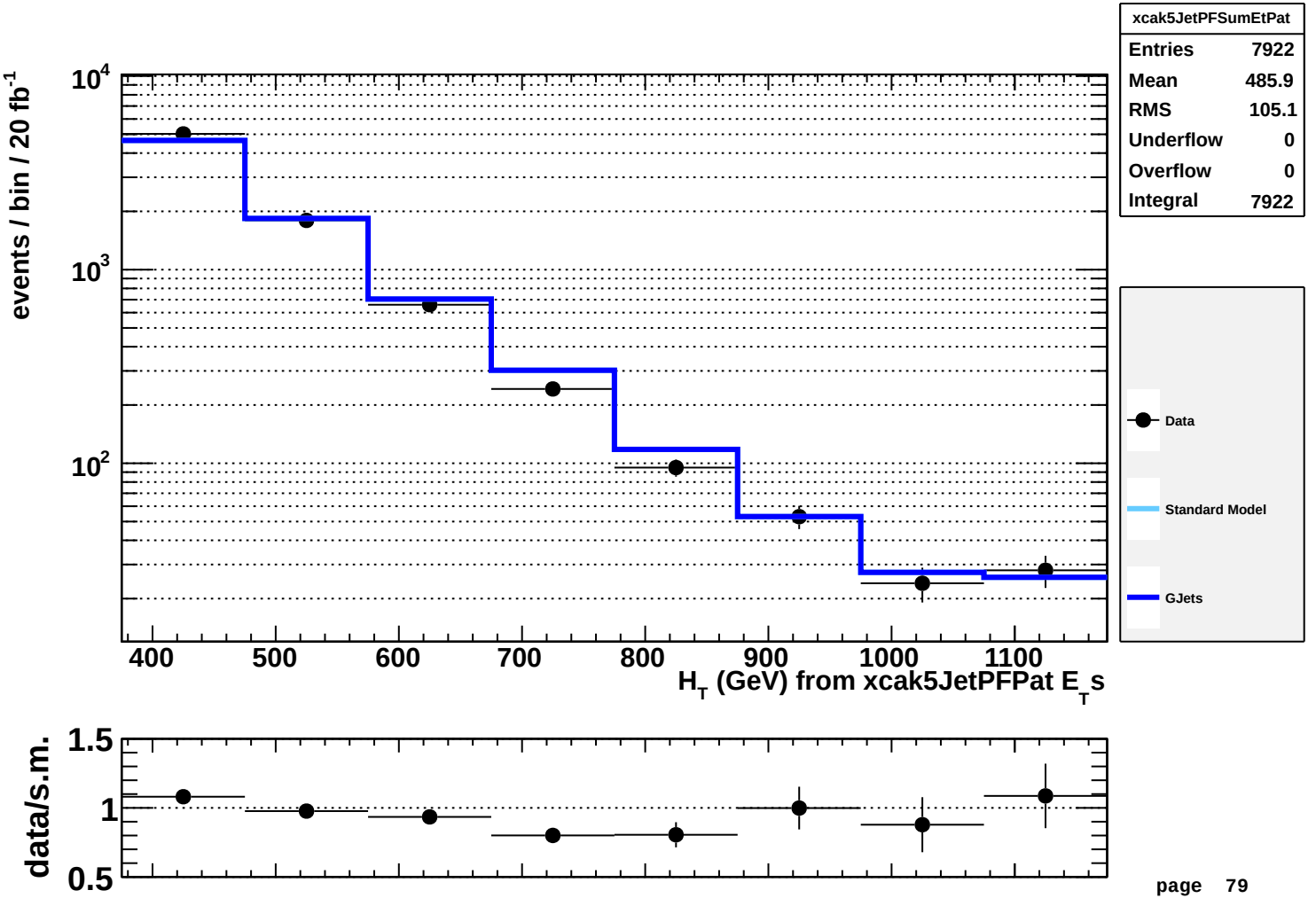

xcak5JetPFSumEtPat_eq0b
Entries 6917
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 6917
Data
Standard Model
GJets
events / bin / 20 fb-1
10^4
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

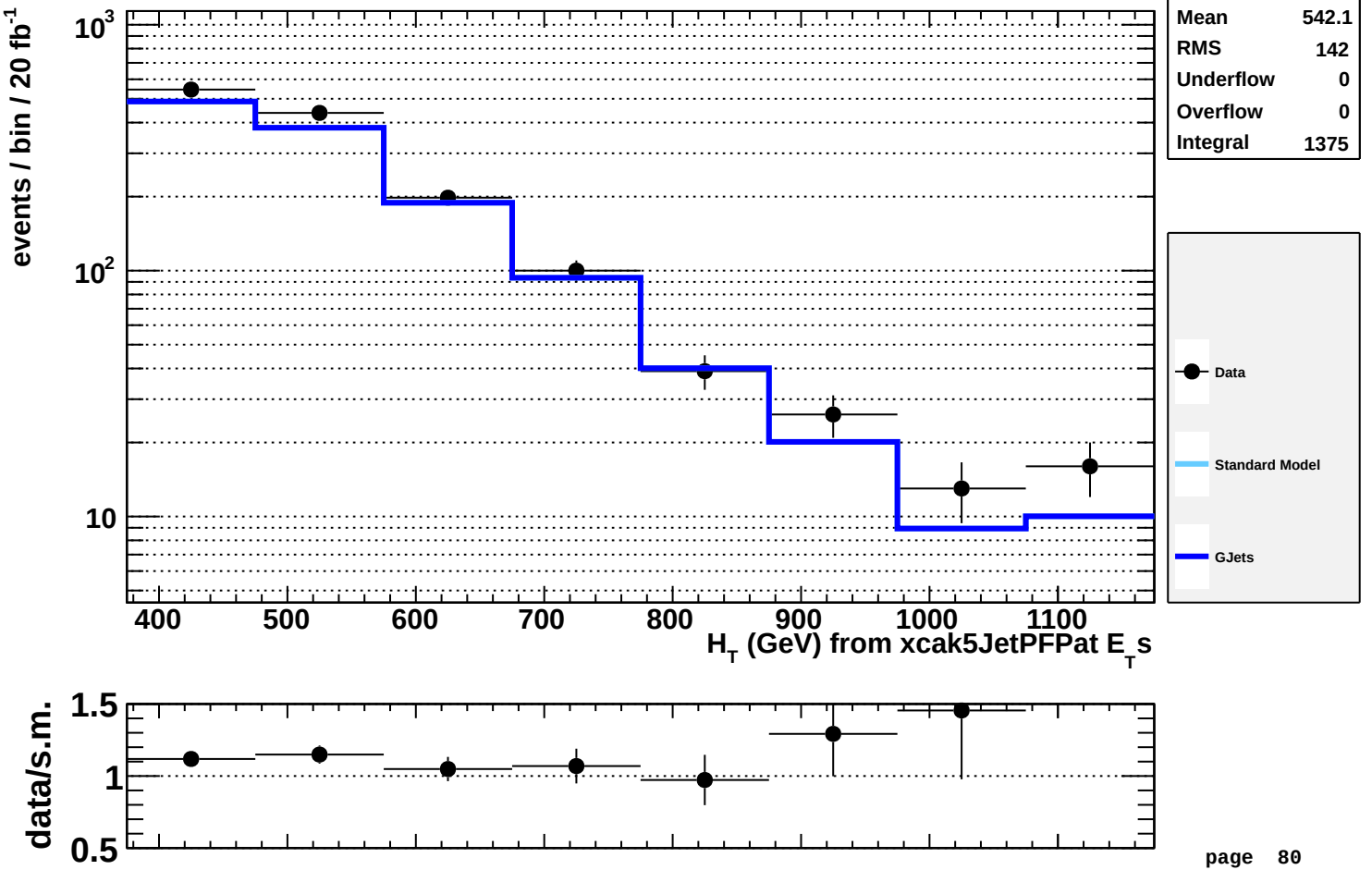

xcak5JetPFSumEtPat_eq1b
Entries 901
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 901
events / bin / 20 fb-1
10^3
Data
Standard Model
GJets
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

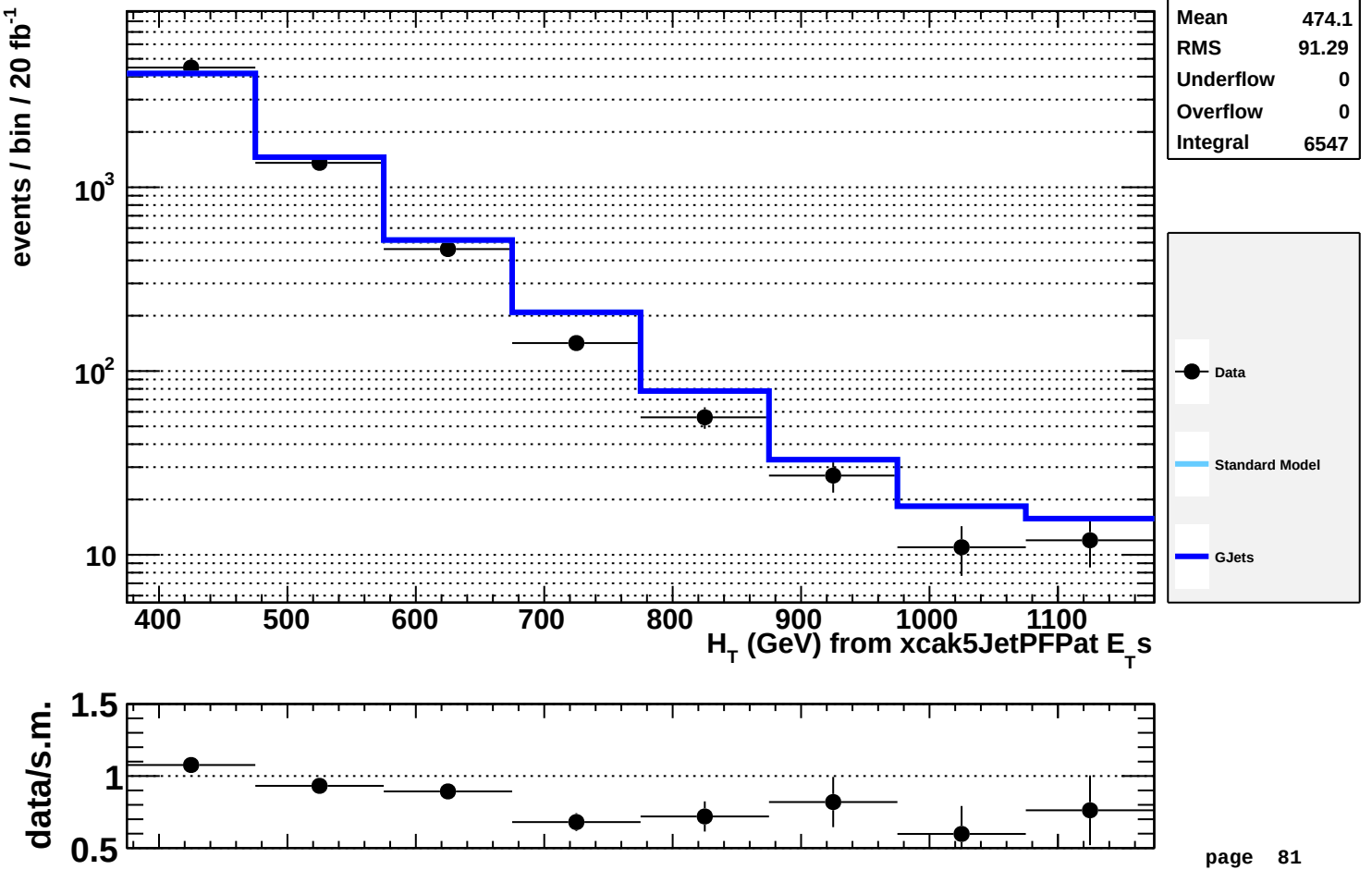

xcak5JetPFSumEtPat_eq2b
Entries 103
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 103
events / bin / 20 fb-1
10^2
Data
Standard Model
GJets
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

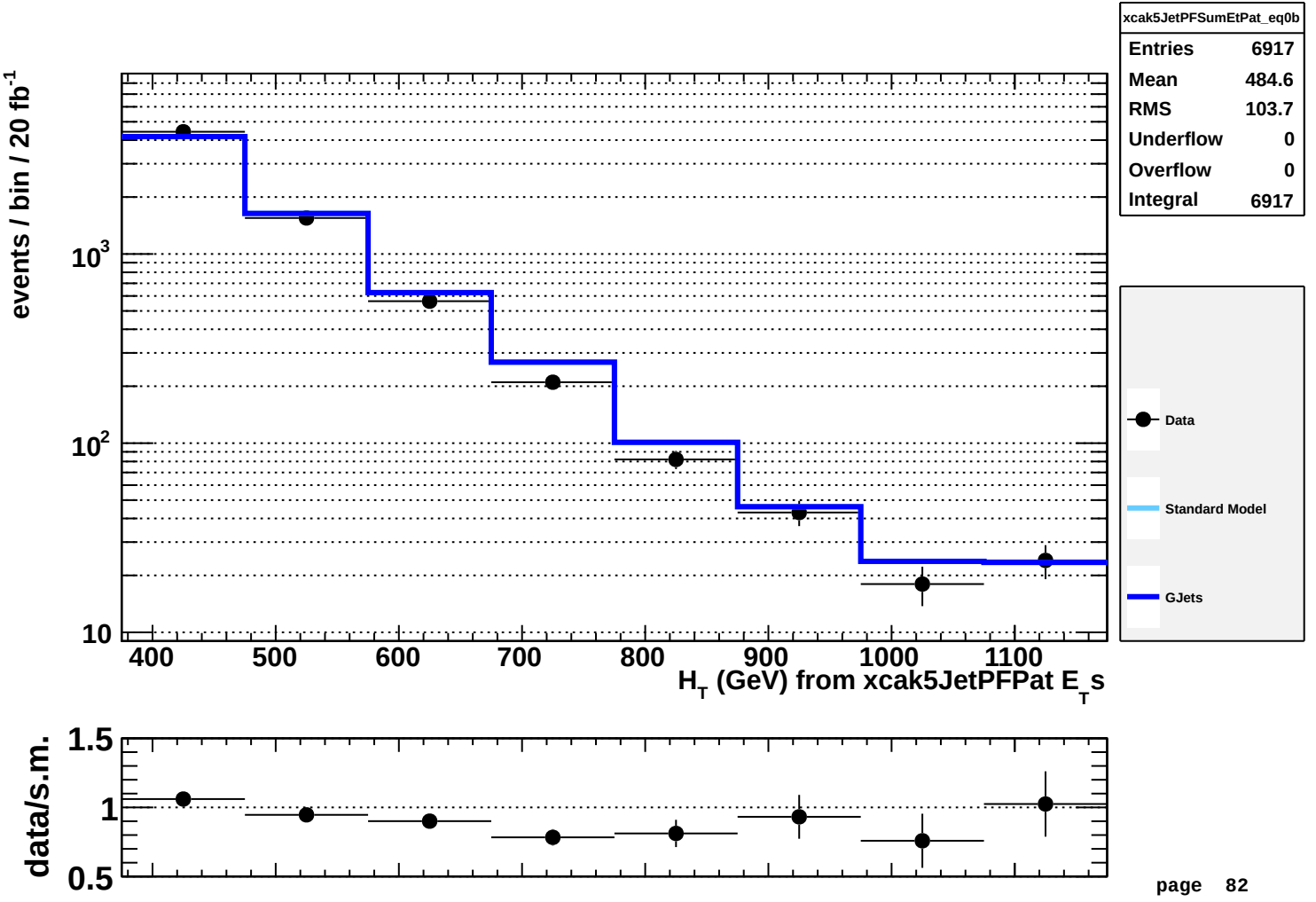

xcak5JetPFSumEtPat_eq3b
Entries 1
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 1
Data
Standard Model
GJets
events / bin / 20 fb-1
1
160
180
200
220
240
260
280
300
320
340
360
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

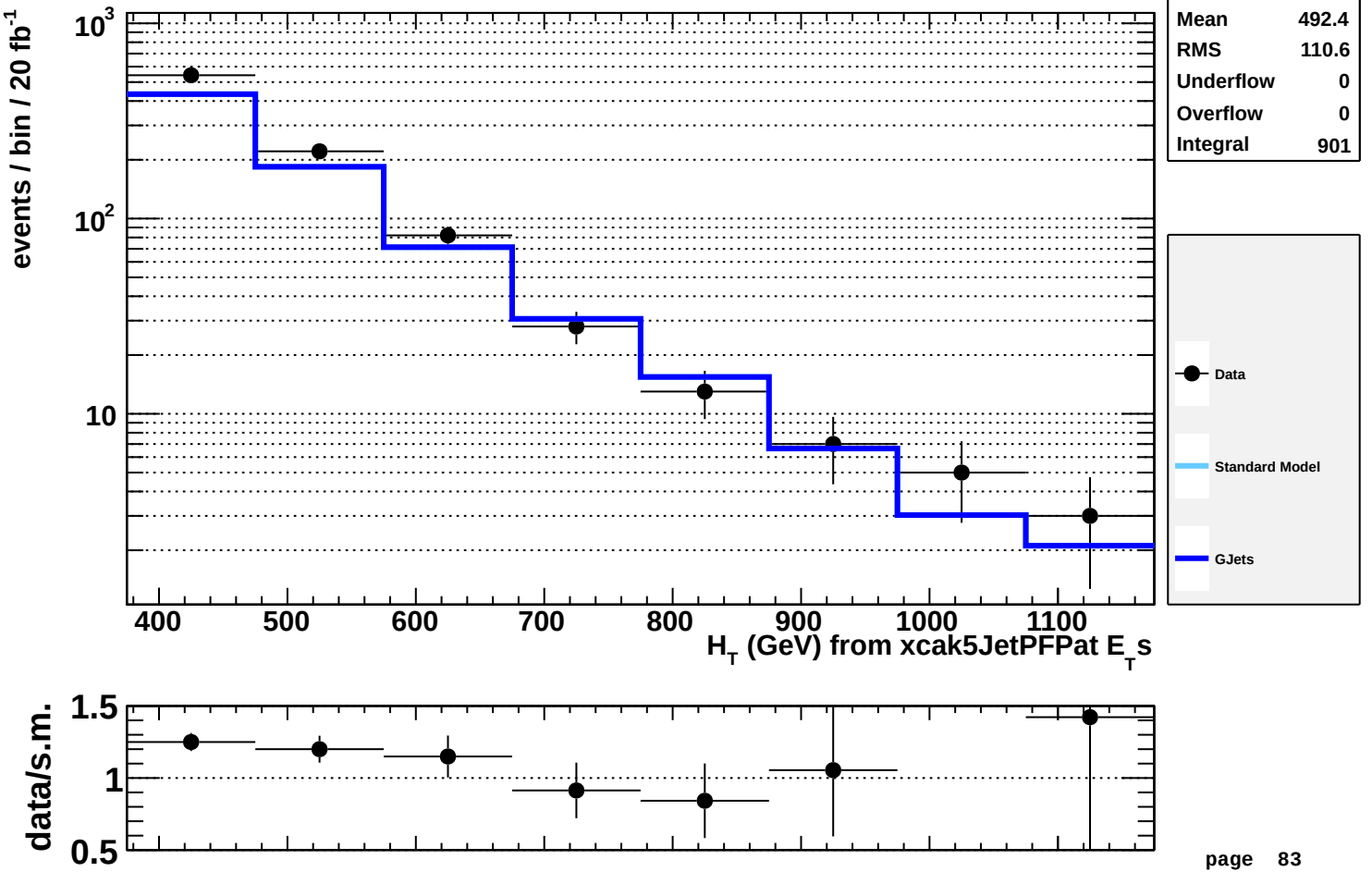

xcak5JetPFSumEtPat
Entries 7922
Mean 362.5
RMS 0
Underflow 0
Overflow 0
Integral 7922
events / bin / 20 fb-1
10^4
160 180 200 220 240 260 280 300 320 340 360
H_T (GeV) from xcak5JetPFPat E_T s
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

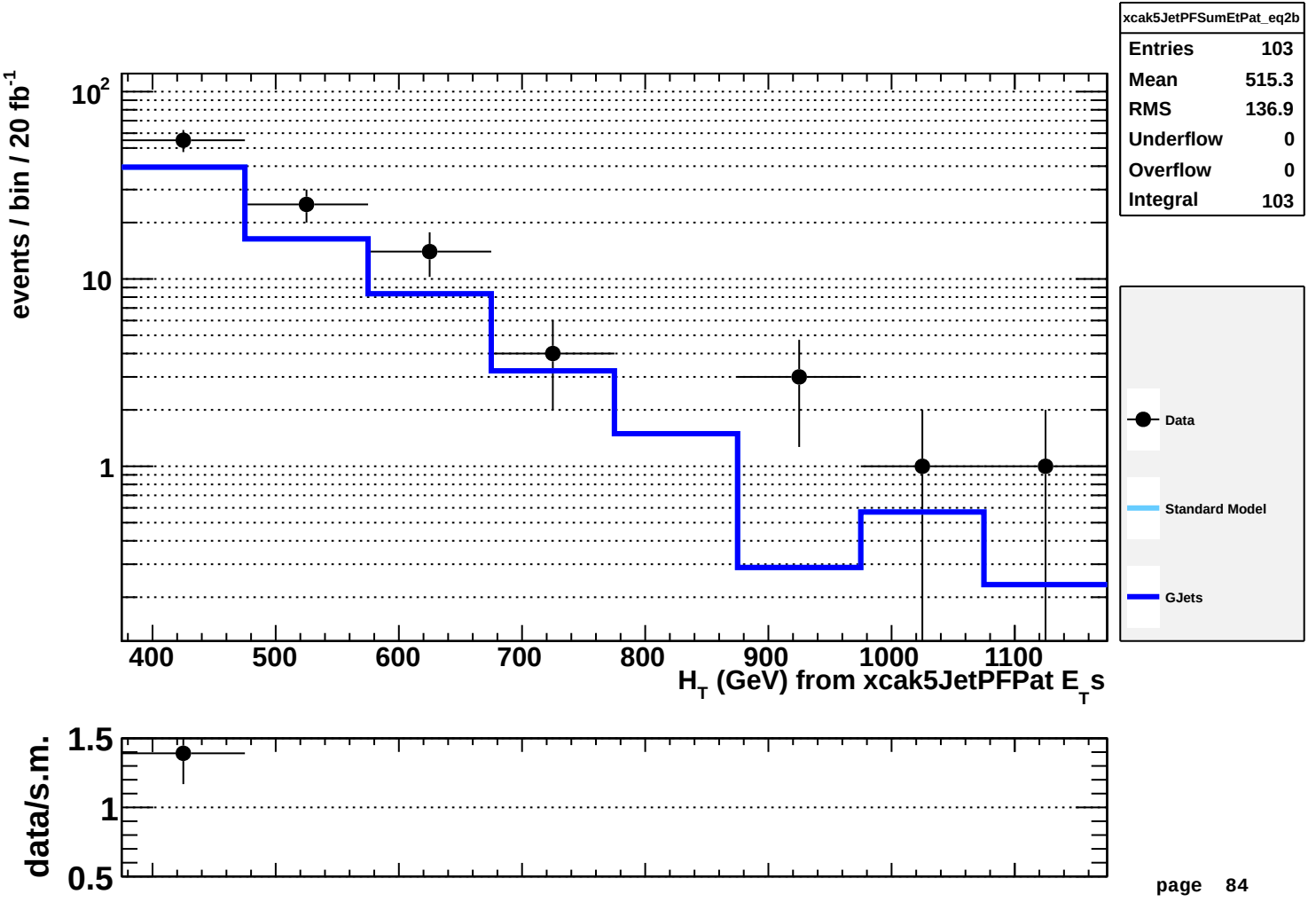

xcak5JetPFSumEtPat
Entries 7922
Mean 485.9
RMS 105.1
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^4
10^3
10^2
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

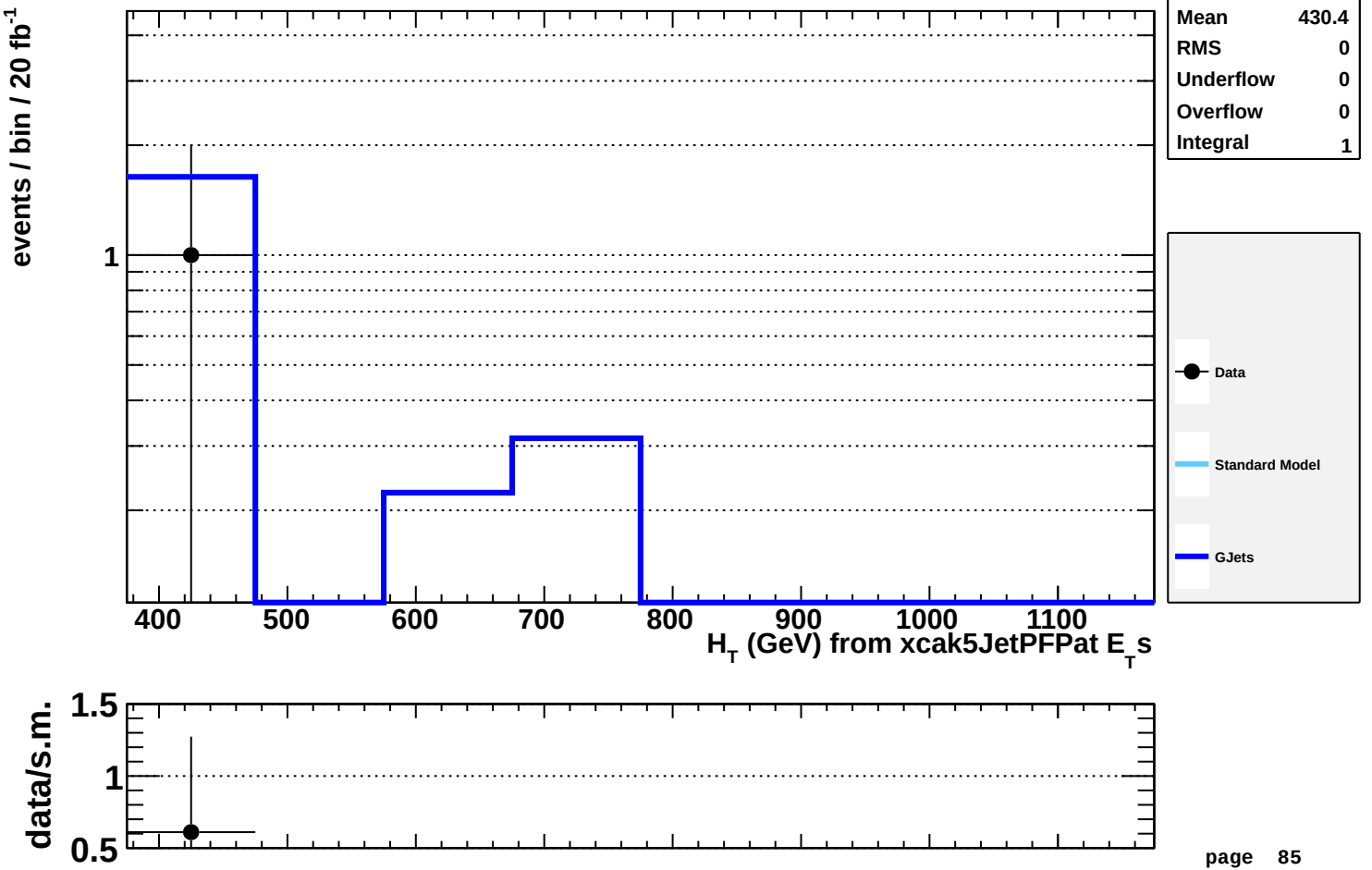

xcak5JetPFSumEtPat_ge4j_aTge55
Entries 1375
Mean 542.1
RMS 142
Underflow 0
Overflow 0
Integral 1375
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

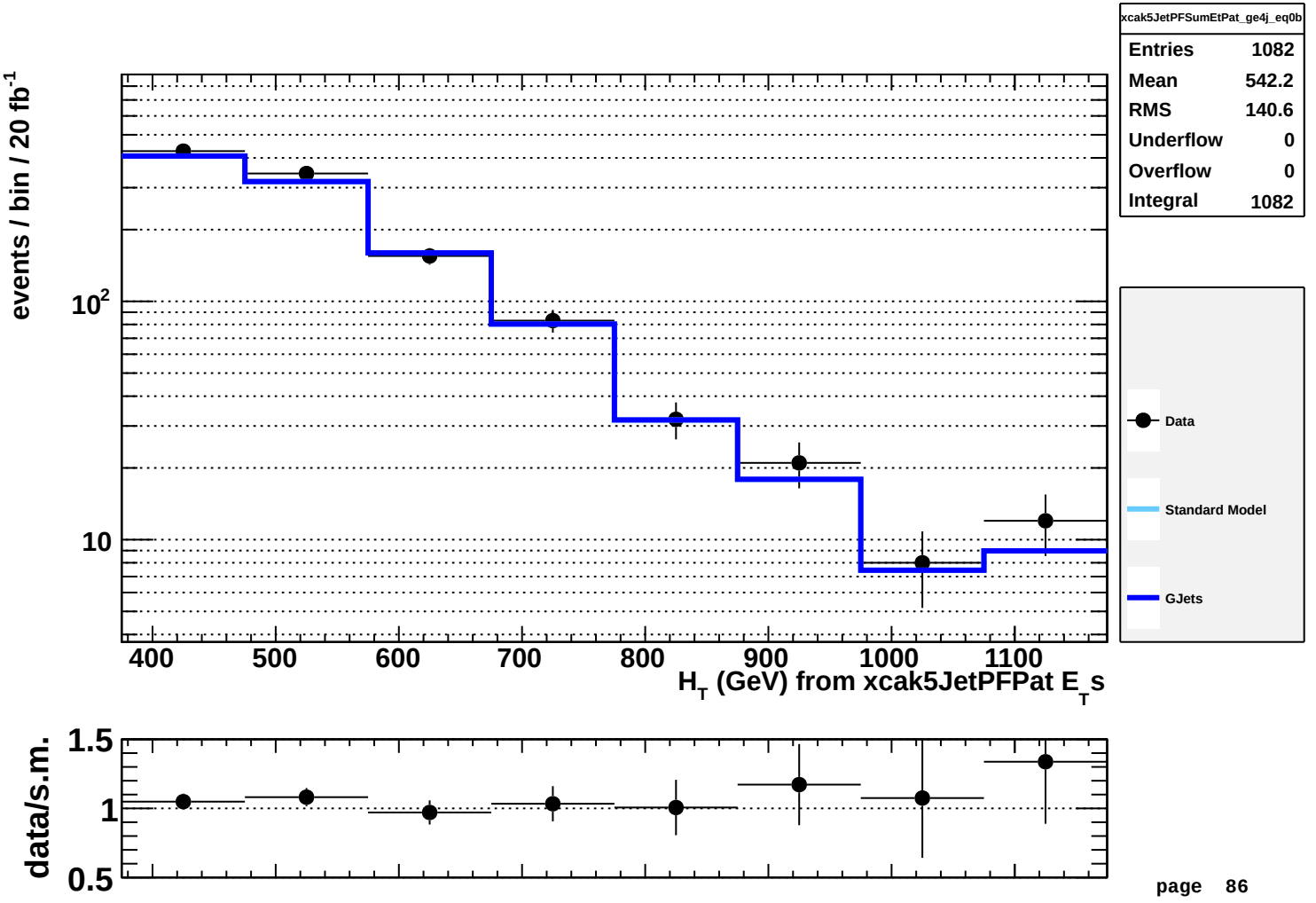

xcak5JetPFSumEtPat_le3j_aTge55
Entries 6547
Mean 474.1
RMS 91.29
Underflow 0
Overflow 0
Integral 6547
Data
Standard Model
GJets
events / bin / 20 fb-1
10
10^2
10^3
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
0.5
1
1.5

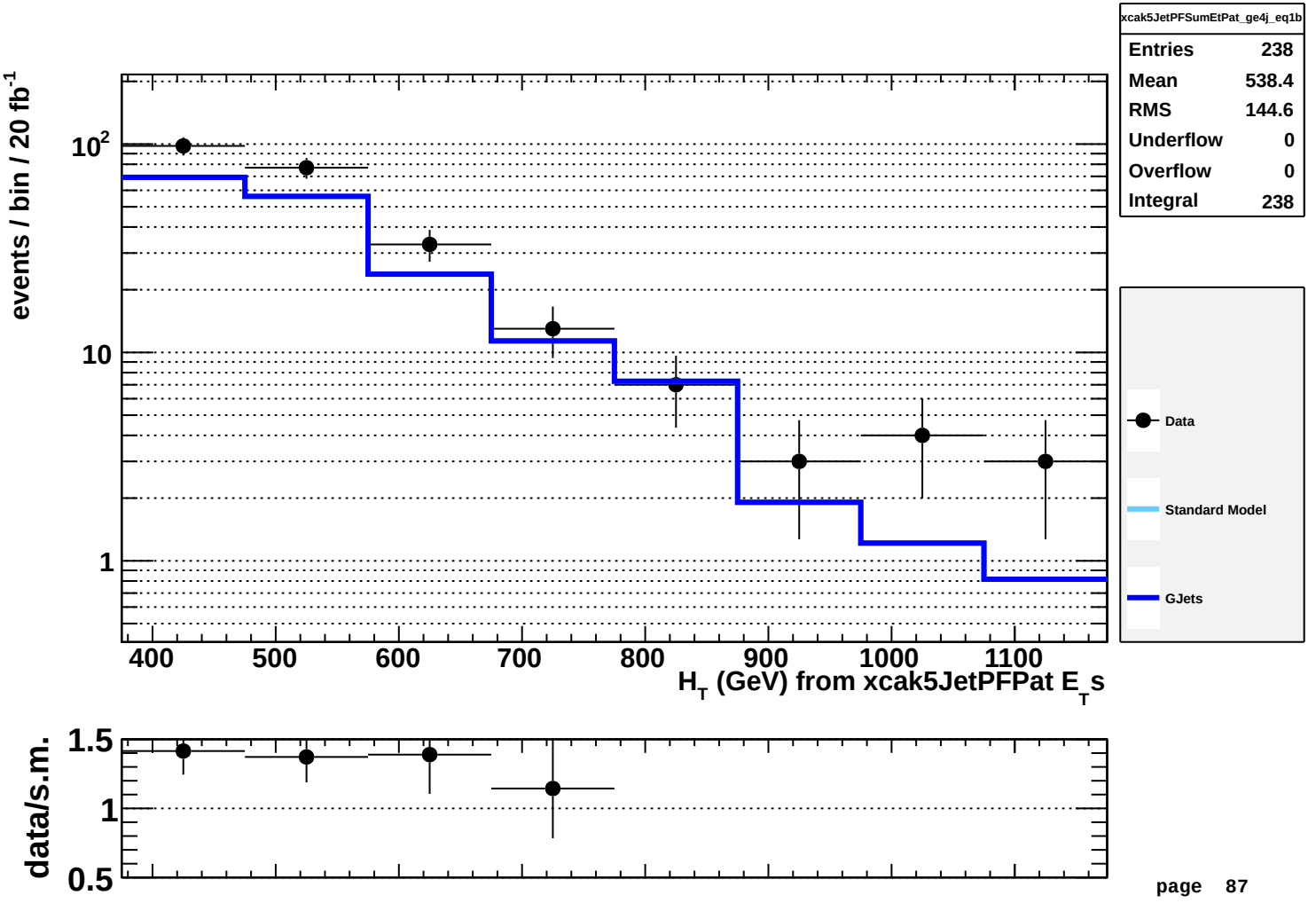

xcak5JetPFSumEtPat_eq0b
Entries 6917
Mean 484.6
RMS 103.7
Underflow 0
Overflow 0
Integral 6917
Data
Standard Model
GJets
events / bin / 20 fb-1
10
10^2
10^3
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
0.5
1
1.5

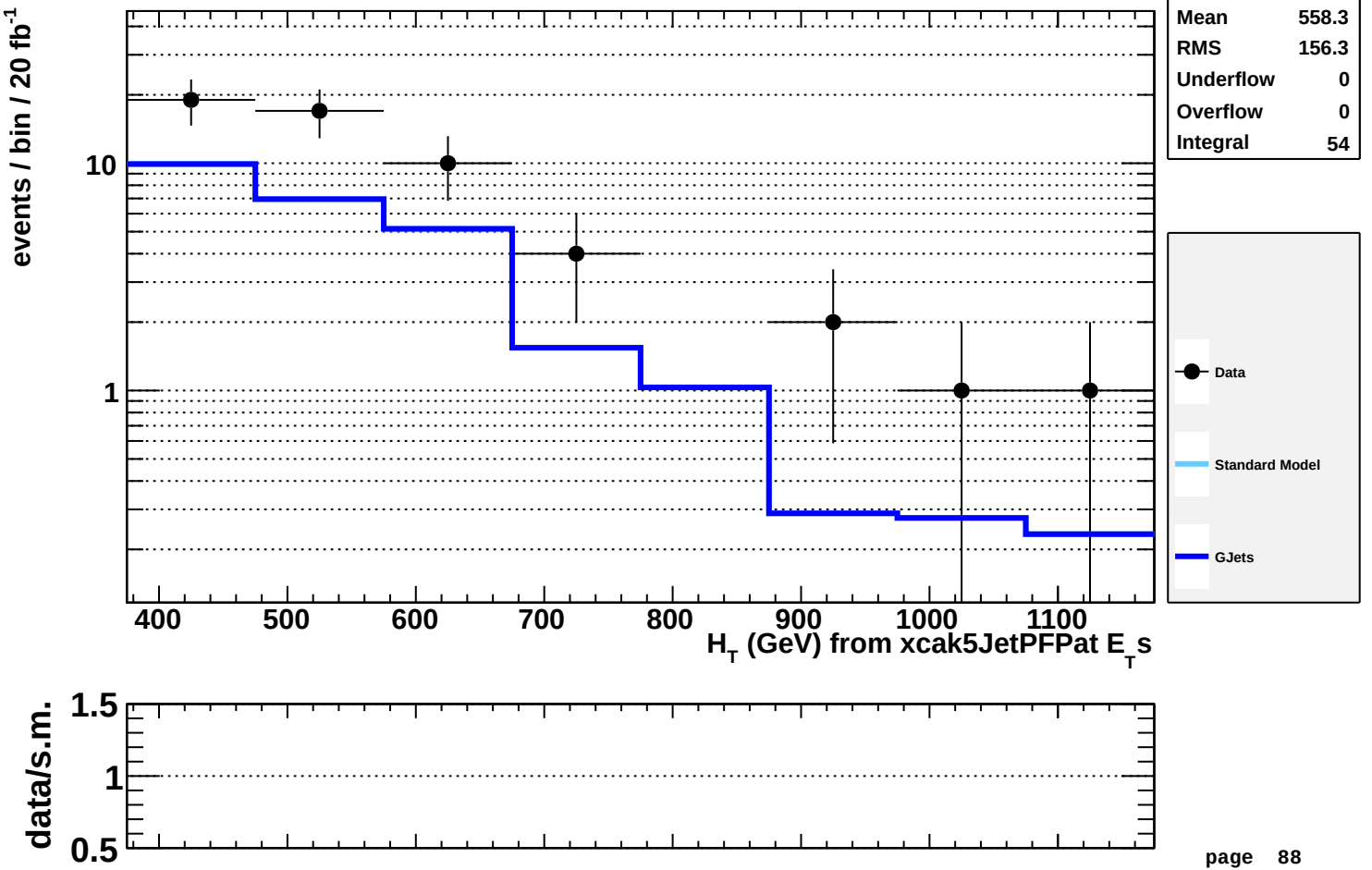

xcak5JetPFSumEtPat_eq1b
Entries 901
Mean 492.4
RMS 110.6
Underflow 0
Overflow 0
Integral 901
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

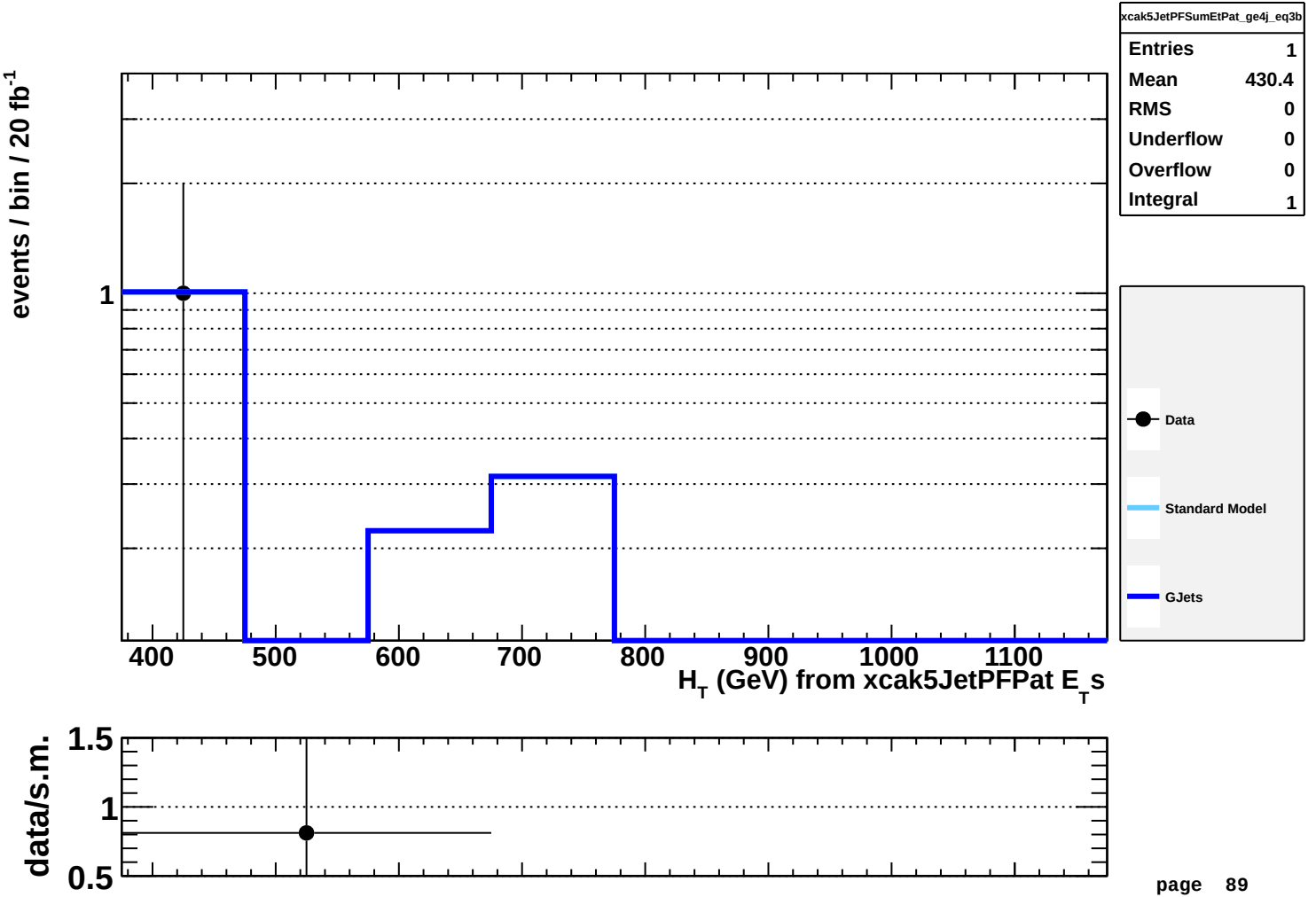

xcak5JetPFSumEtPat_eq2b
Entries 103
Mean 515.3
RMS 136.9
Underflow 0
Overflow 0
Integral 103
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

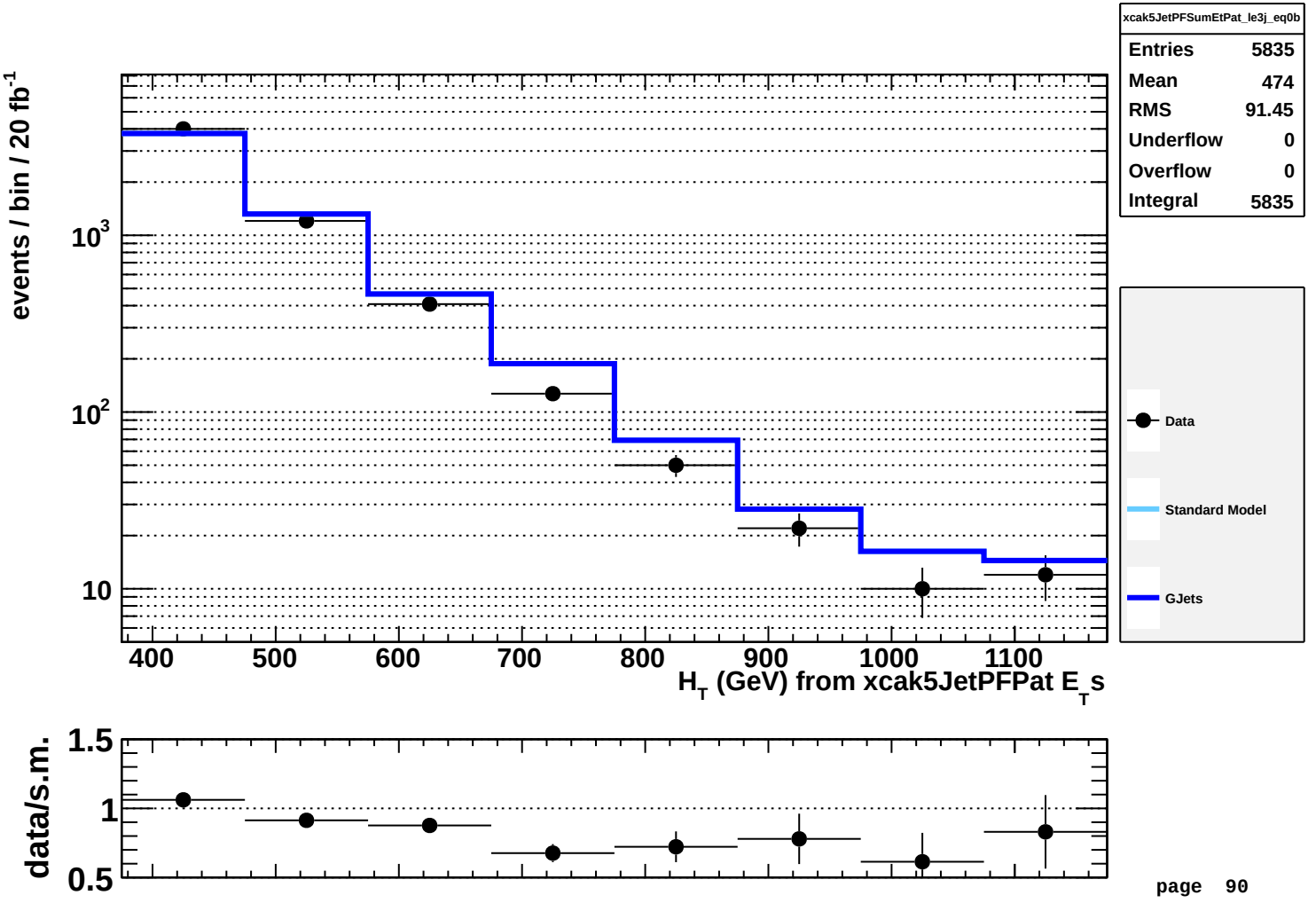

xcak5JetPFSumEtPat_eq3b
Entries 1
Mean 430.4
RMS 0
Underflow 0
Overflow 0
Integral 1
Data
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

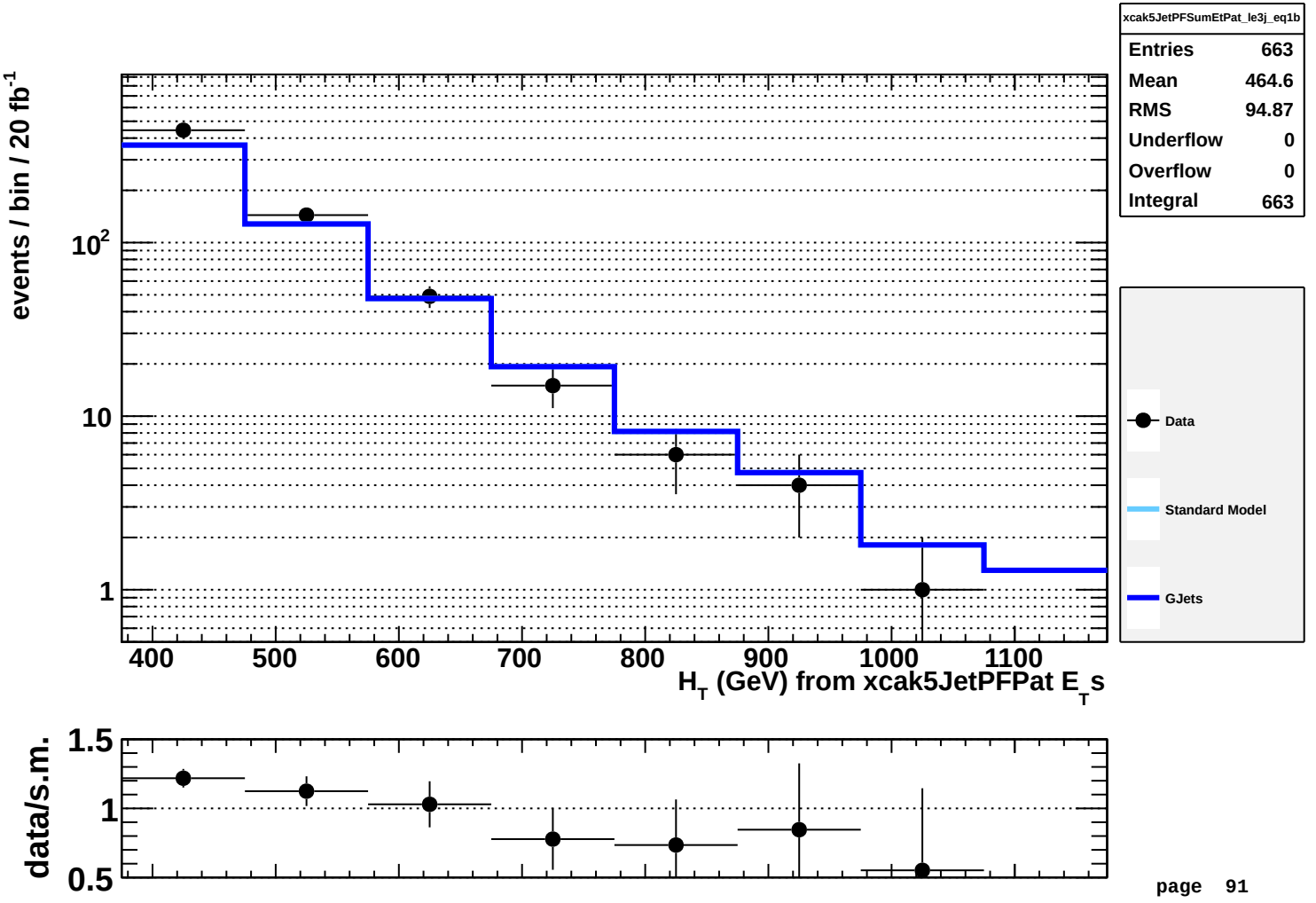

xcak5JetPFSumEtPat_ge4j_eq0b
Entries 1082
Mean 542.2
RMS 140.6
Underflow 0
Overflow 0
Integral 1082
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

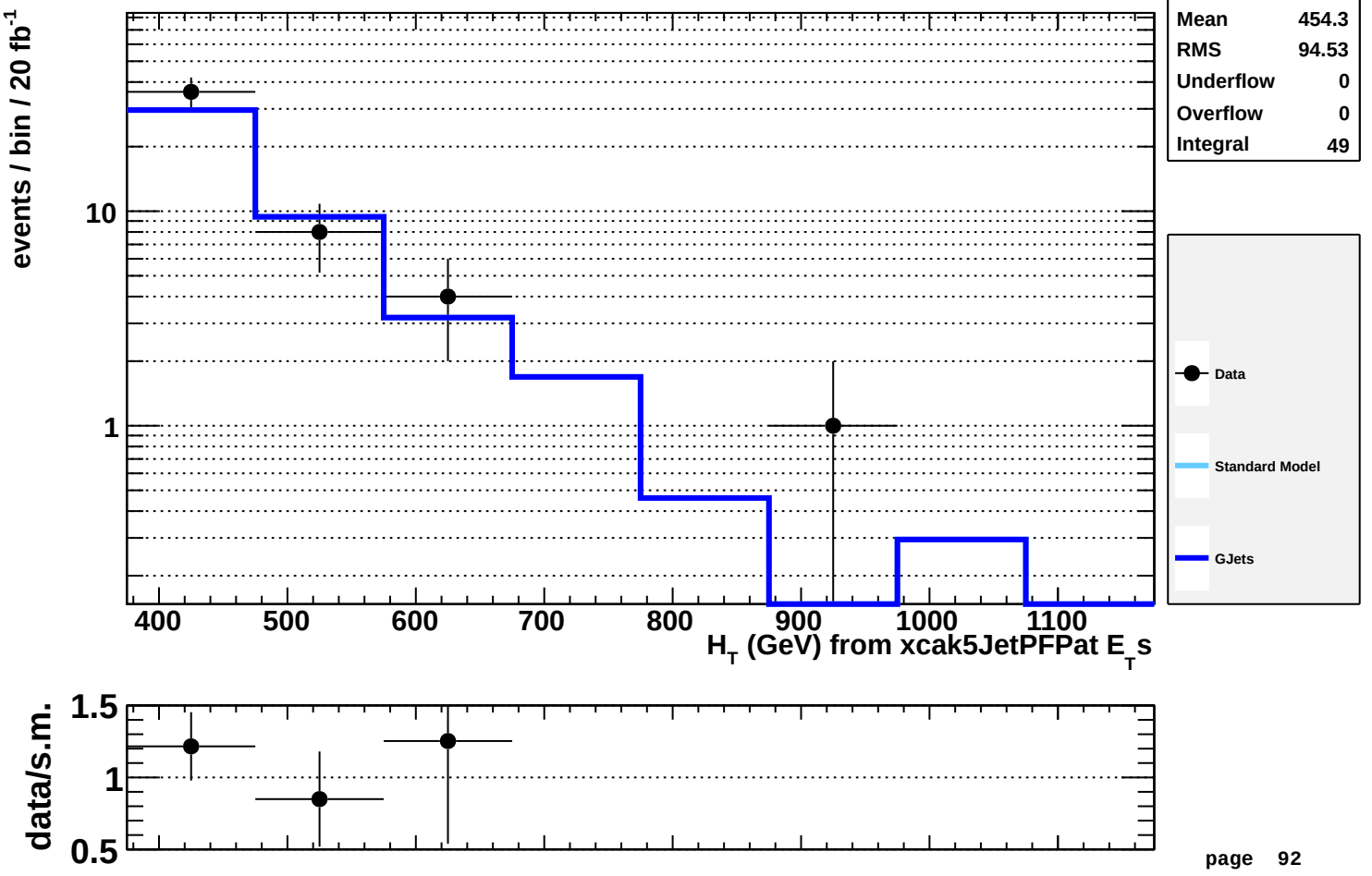

xcak5JetPFSumEtPat_ge4j_eq1b
Entries 238
Mean 538.4
RMS 144.6
Underflow 0
Overflow 0
Integral 238
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

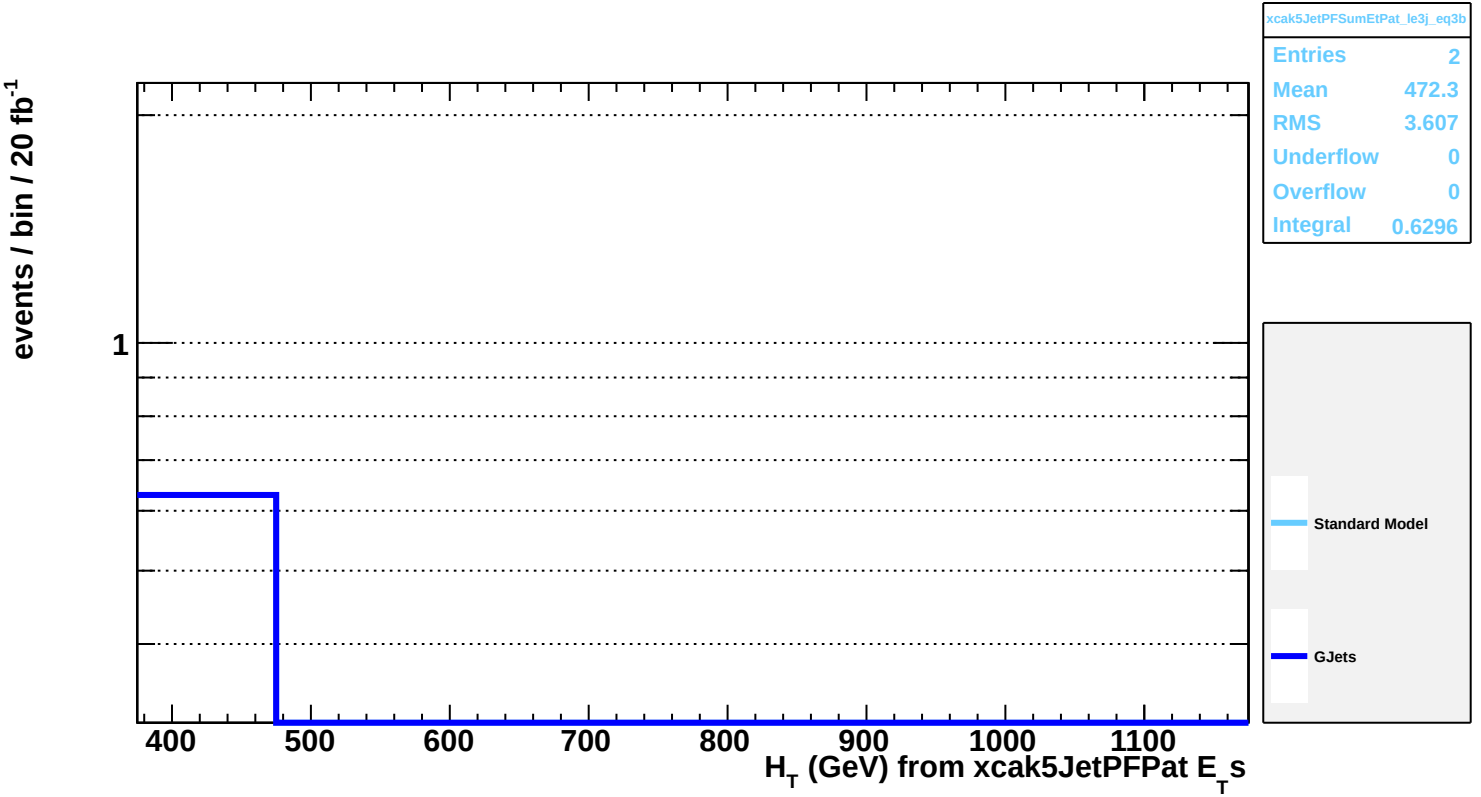

xcak5JetPFSumEtPat_ge4j_eq2b
Entries 54
Mean 558.3
RMS 156.3
Underflow 0
Overflow 0
Integral 54
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

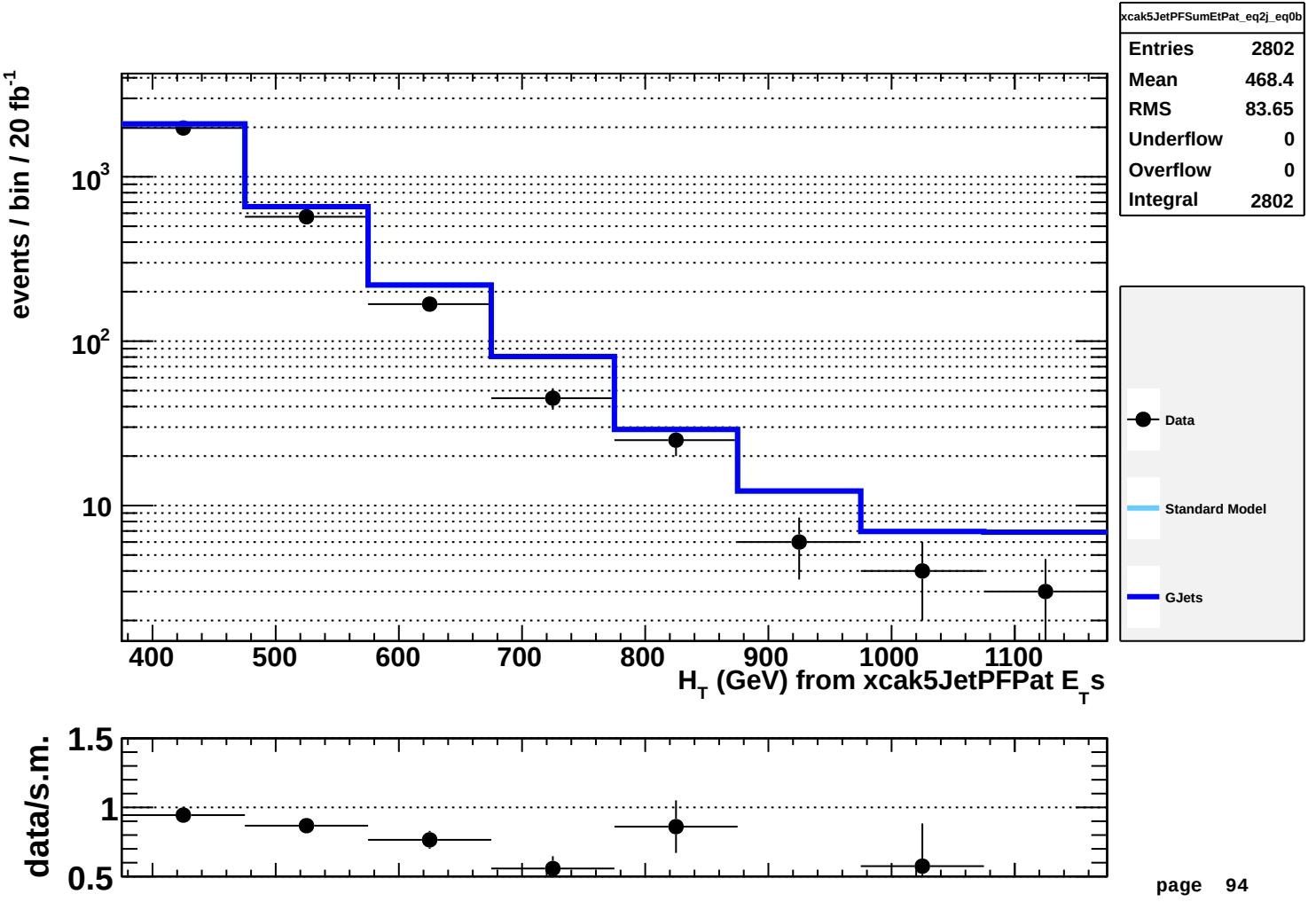

xcak5JetPFSumEtPat_ge4j_eq3b
Entries 1
Mean 430.4
RMS 0
Underflow 0
Overflow 0
Integral 1
events / bin / 20 fb-1
1
Data
Standard Model
GJets
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

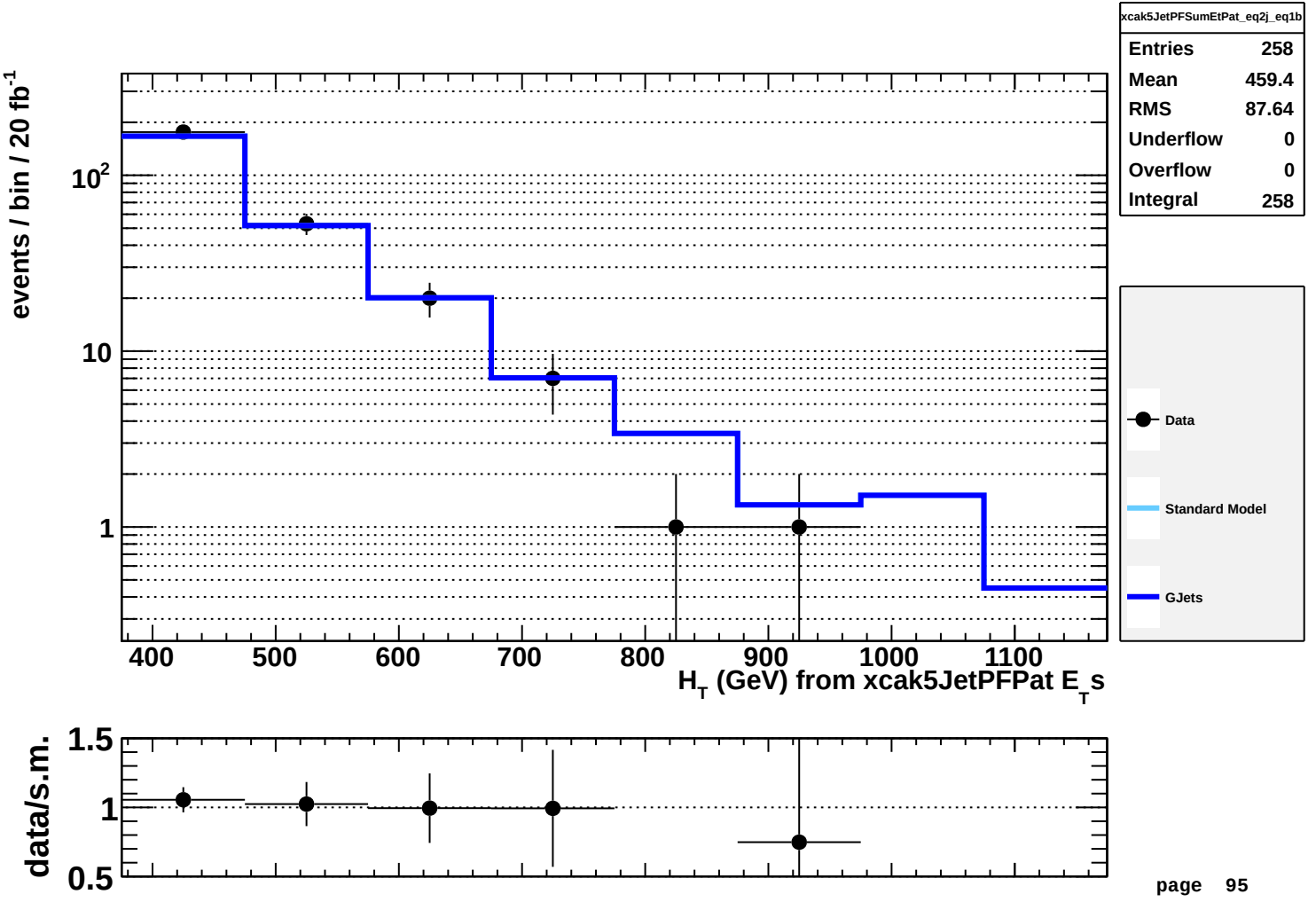

xcak5JetPFSumEtPat_le3j_eq0b
Entries 5835
Mean 474
RMS 91.45
Underflow 0
Overflow 0
Integral 5835
Data
Standard Model
GJets
events / bin / 20 fb-1
10
10^2
10^3
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
0.5
1
1.5

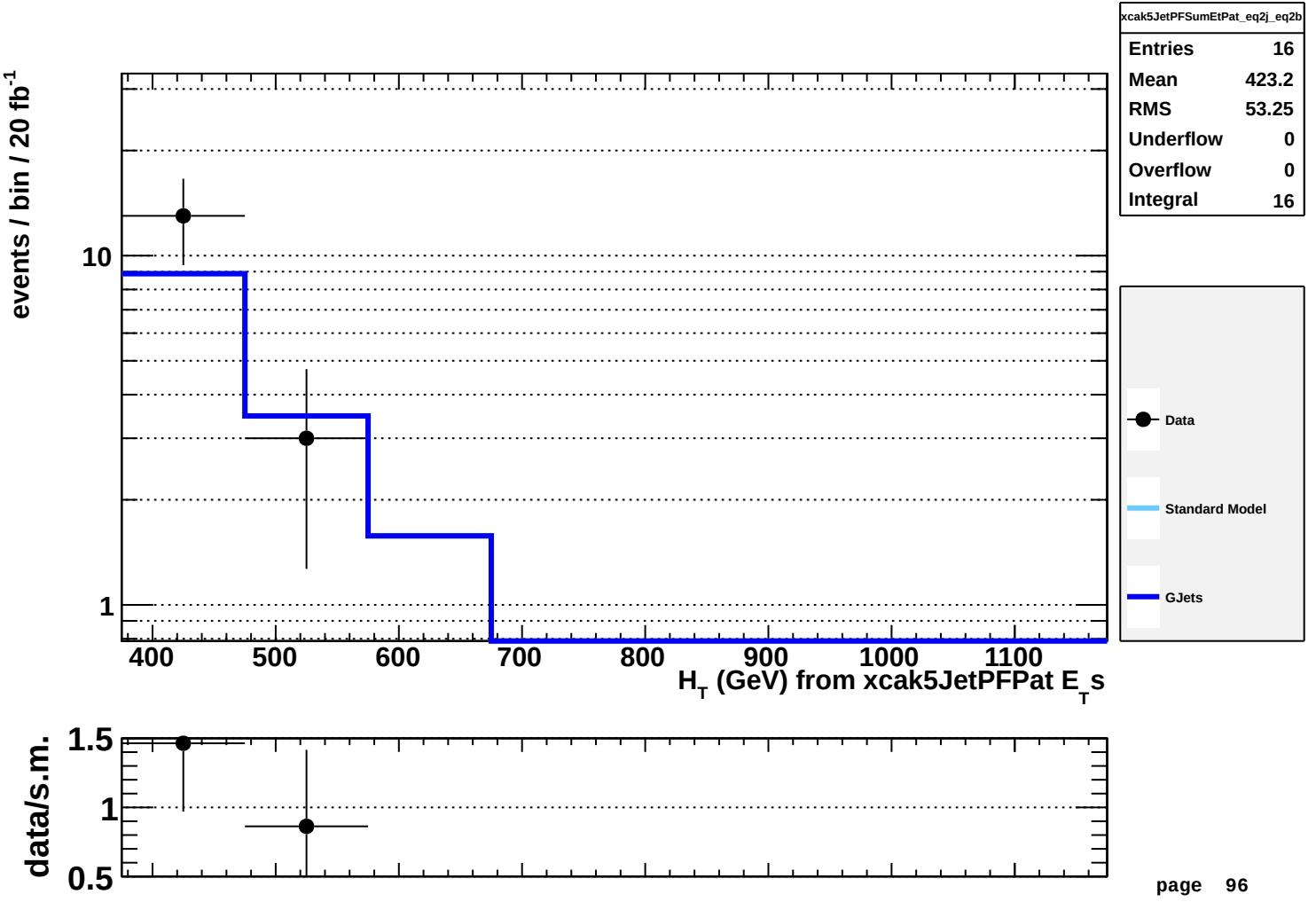

xcak5JetPFSumEtPat_le3j_eq1b
Entries 663
Mean 464.6
RMS 94.87
Underflow 0
Overflow 0
Integral 663
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

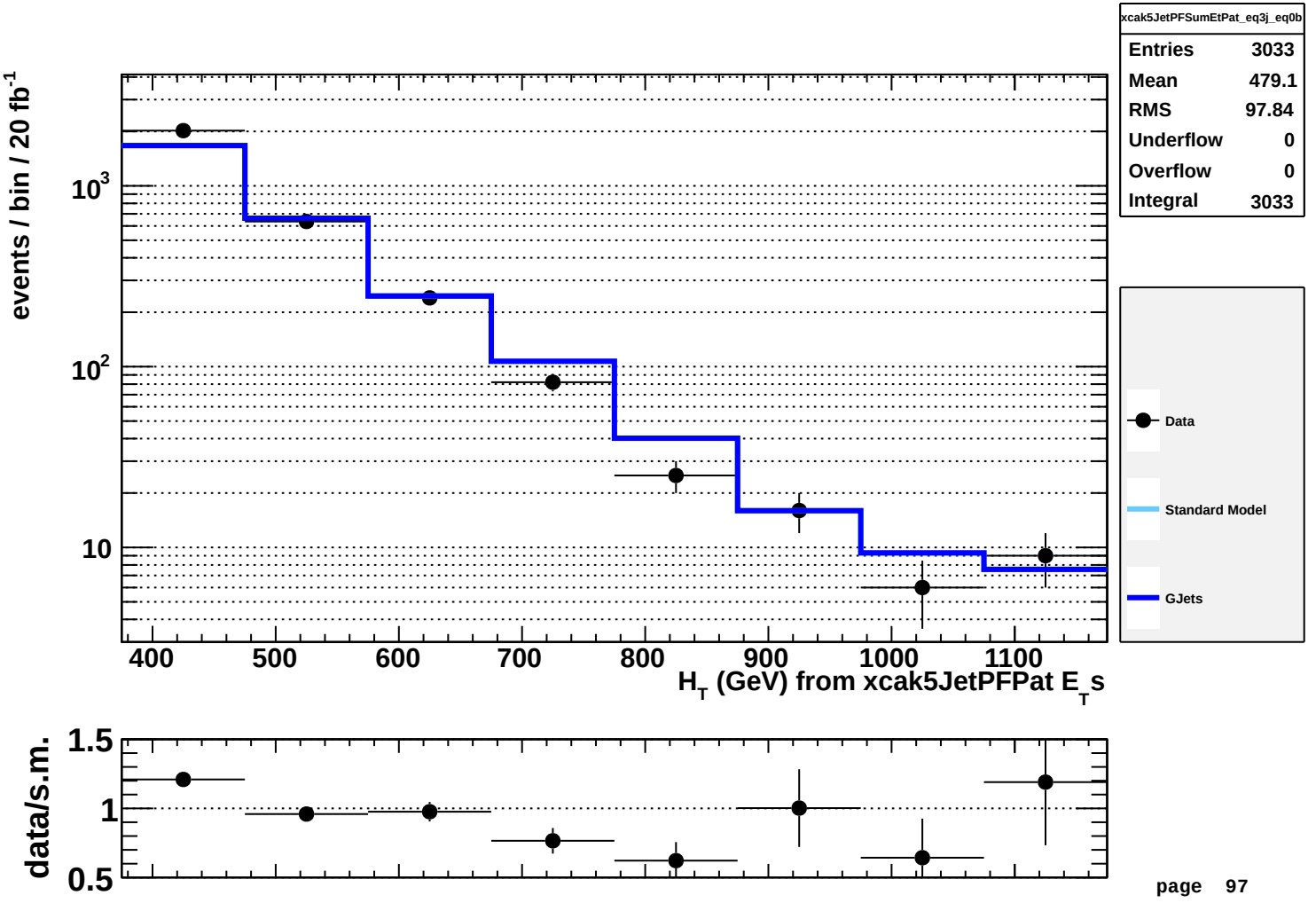

xcak5JetPFSumEtPat_le3j_eq2b
Entries 49
Mean 454.3
RMS 94.53
Underflow 0
Overflow 0
Integral 49
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

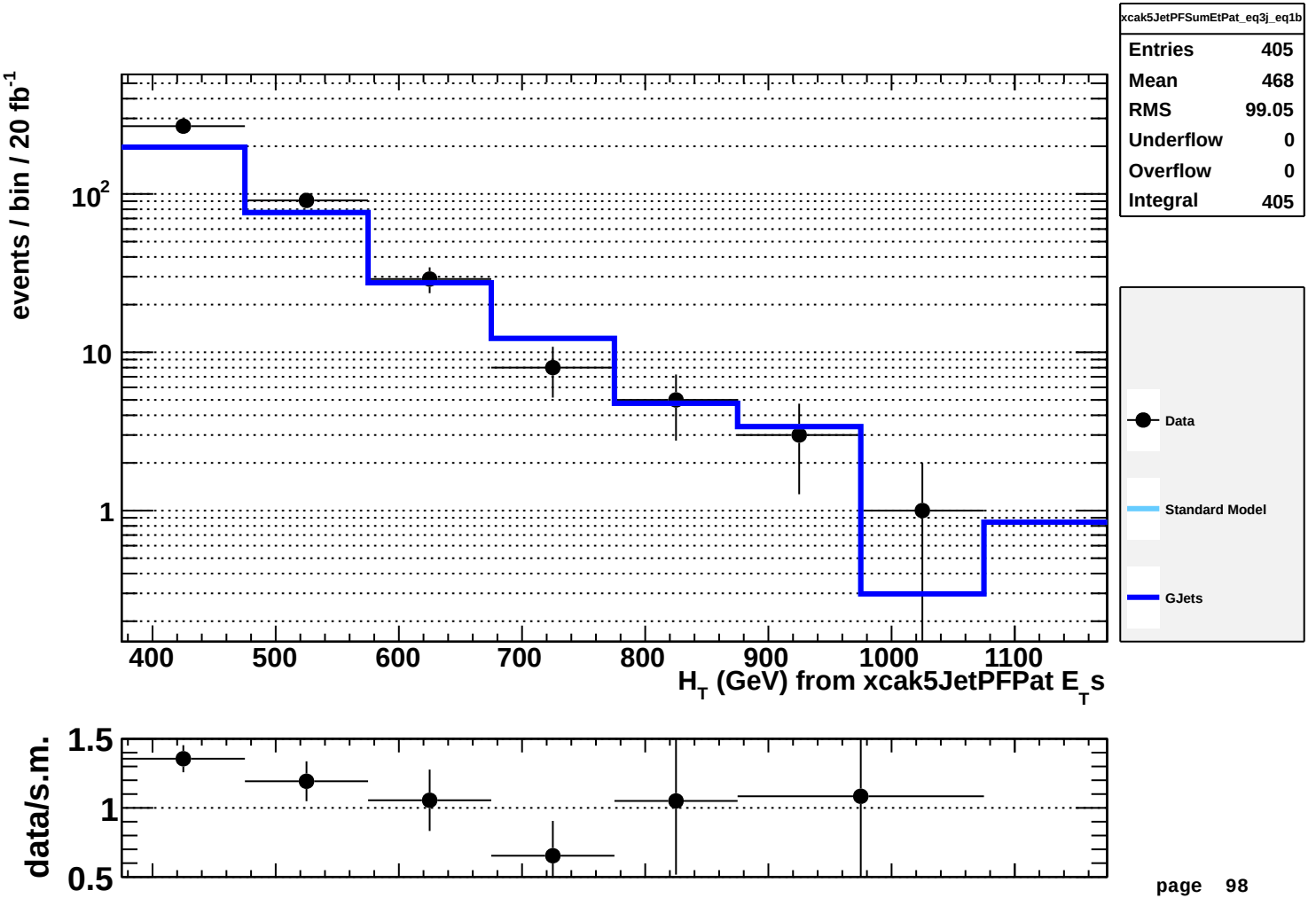

xcak5JetPFSumEtPat_le3j_eq3b
Entries 2
Mean 472.3
RMS 3.607
Underflow 0
Overflow 0
Integral 0.6296
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs

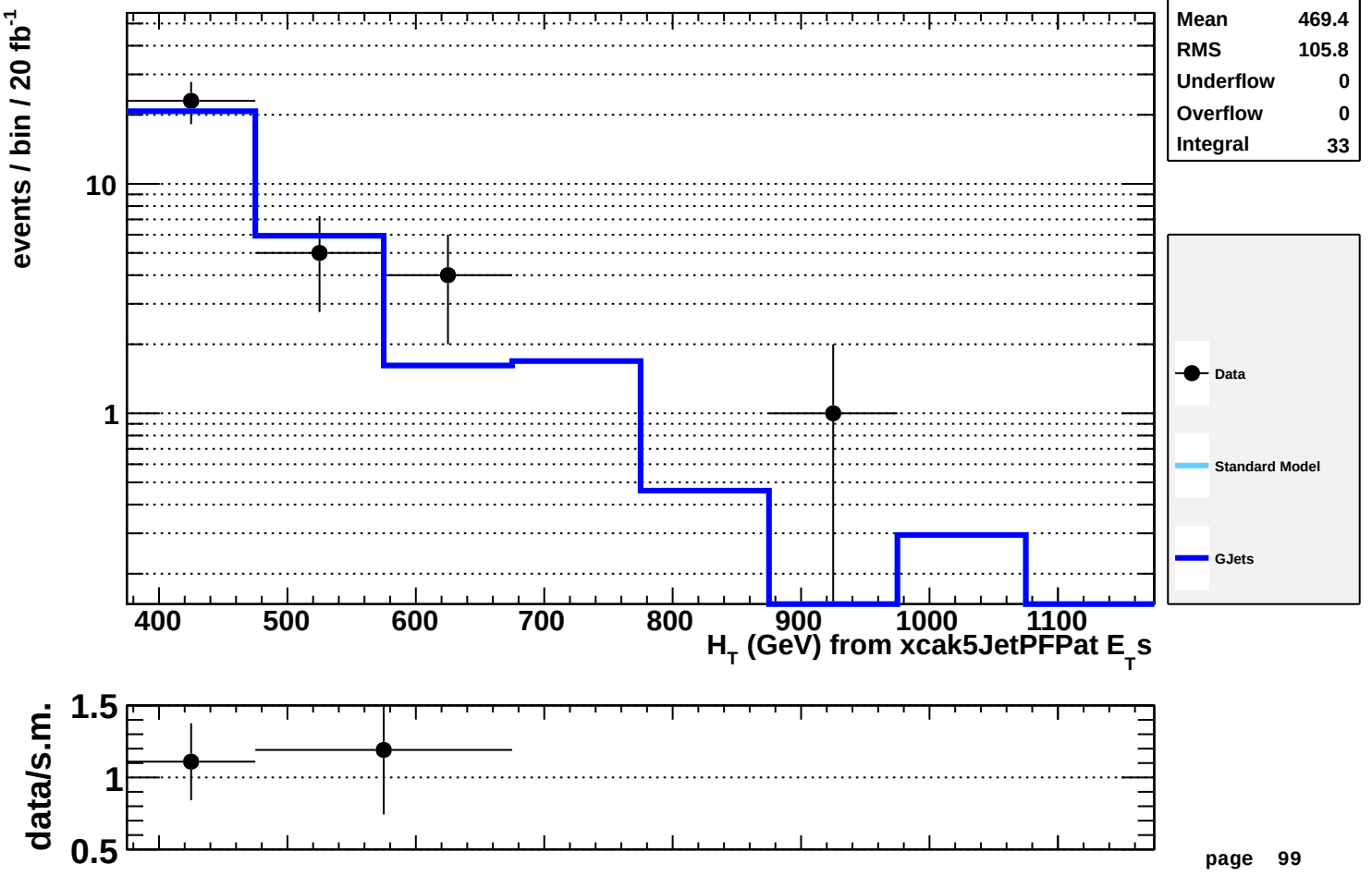

xcak5JetPFSumEtPat_eq2j_eq0b
Entries 2802
Mean 468.4
RMS 83.65
Underflow 0
Overflow 0
Integral 2802
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

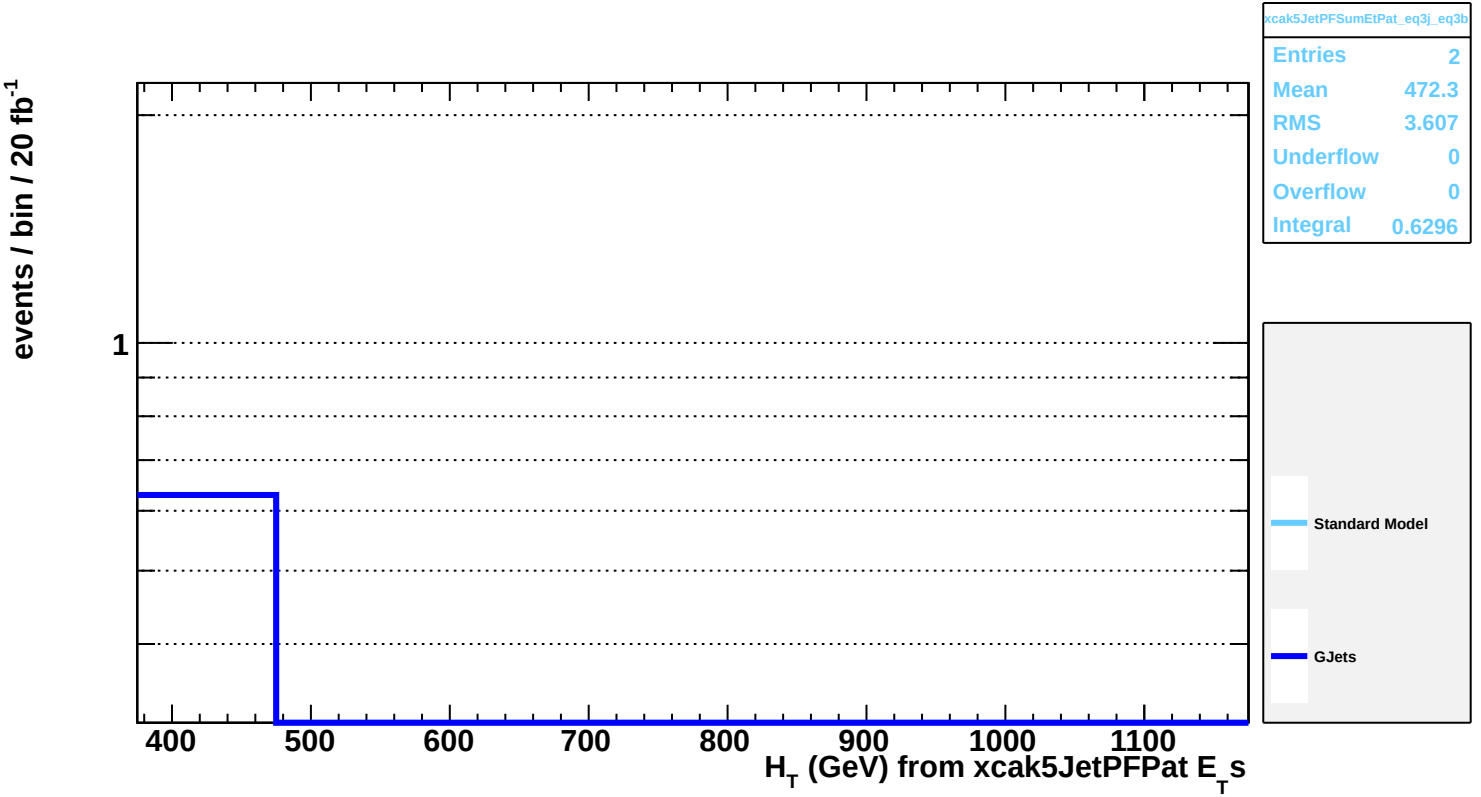

xcak5JetPFSumEtPat_eq2j_eq1b
Entries 258
Mean 459.4
RMS 87.64
Underflow 0
Overflow 0
Integral 258
Data
Standard Model
GJets
events / bin / 20 fb-1
10²
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

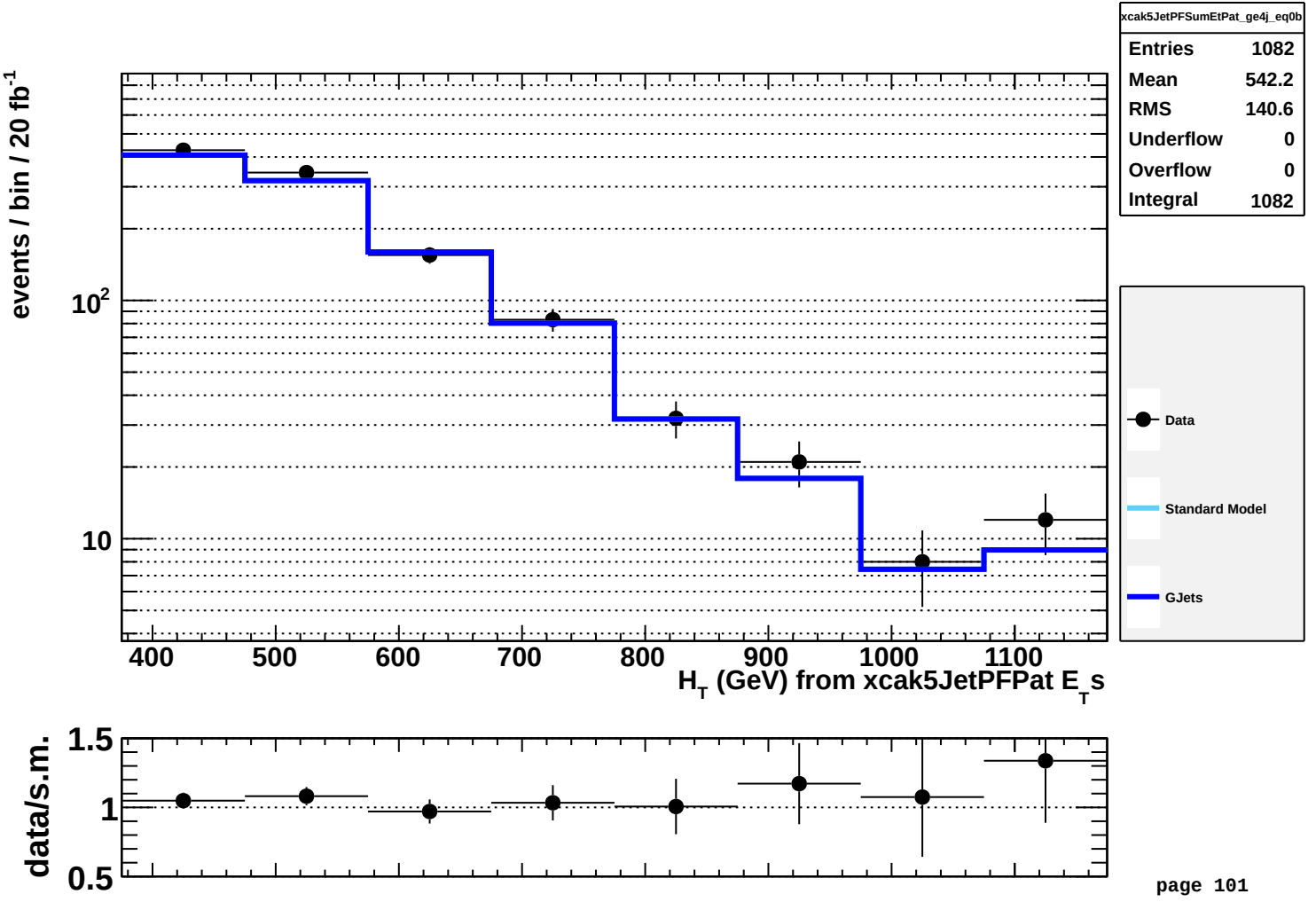

xcak5JetPFSumEtPat_eq2j_eq2b
Entries 16
Mean 423.2
RMS 53.25
Underflow 0
Overflow 0
Integral 16
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

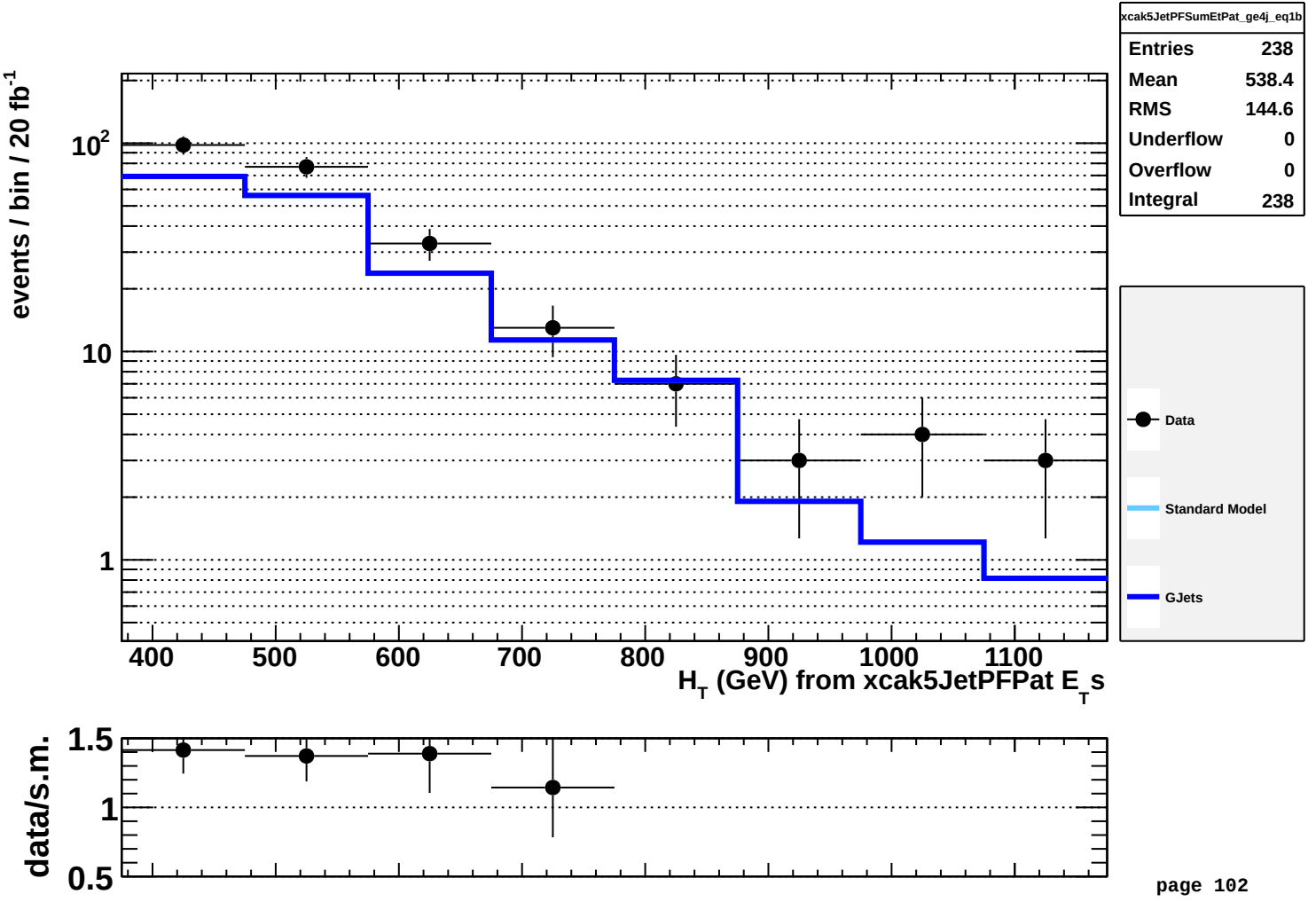

xcak5JetPFSumEtPat_eq3j_eq0b
Entries 3033
Mean 479.1
RMS 97.84
Underflow 0
Overflow 0
Integral 3033
Data
Standard Model
GJets
events / bin / 20 fb-1
10^3
10^2
10
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

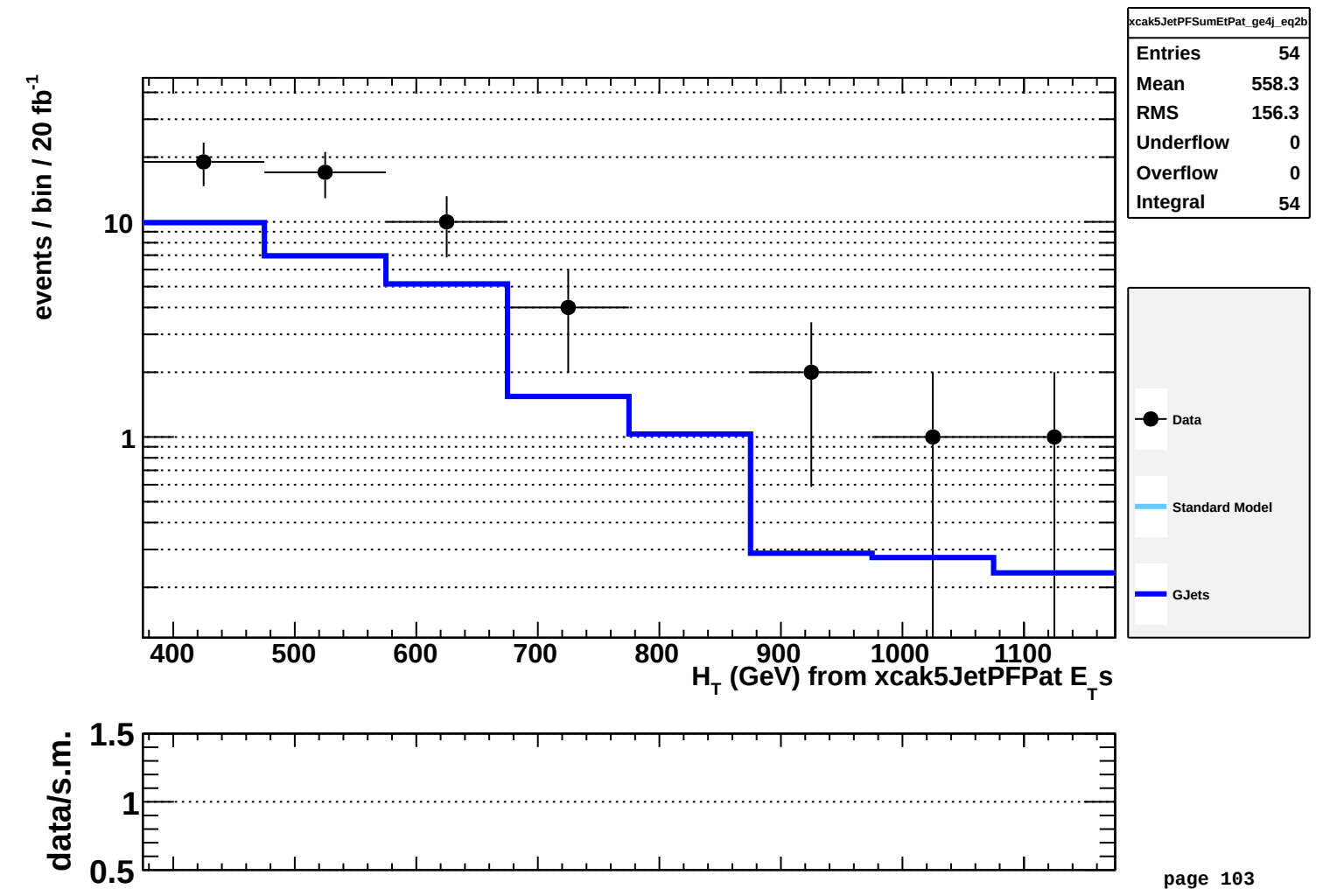

xcak5JetPFSumEtPat_eq3j_eq1b
Entries 405
Mean 468
RMS 99.05
Underflow 0
Overflow 0
Integral 405
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

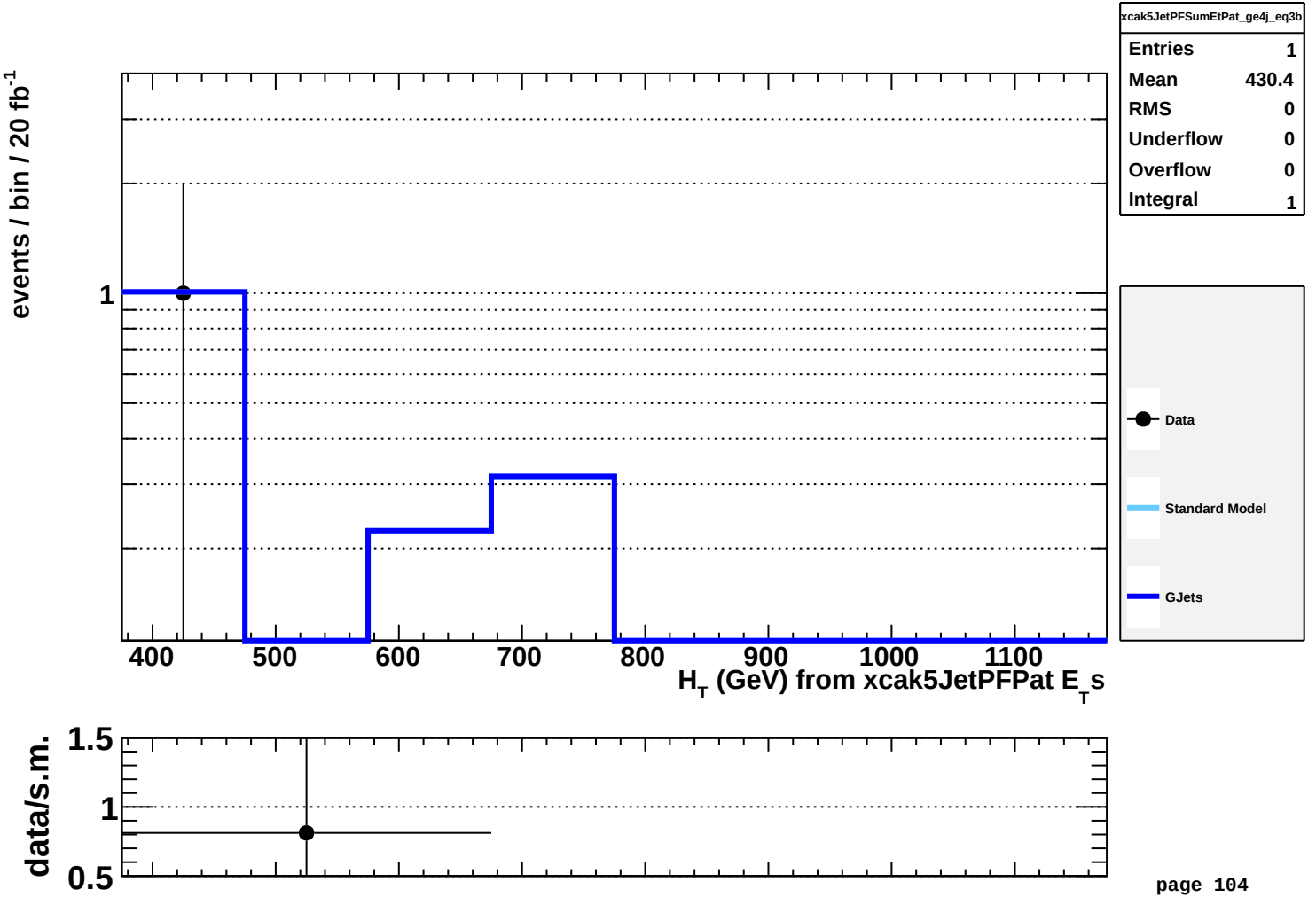

xcak5JetPFSumEtPat_eq3j_eq2b
Entries 33
Mean 469.4
RMS 105.8
Underflow 0
Overflow 0
Integral 33
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

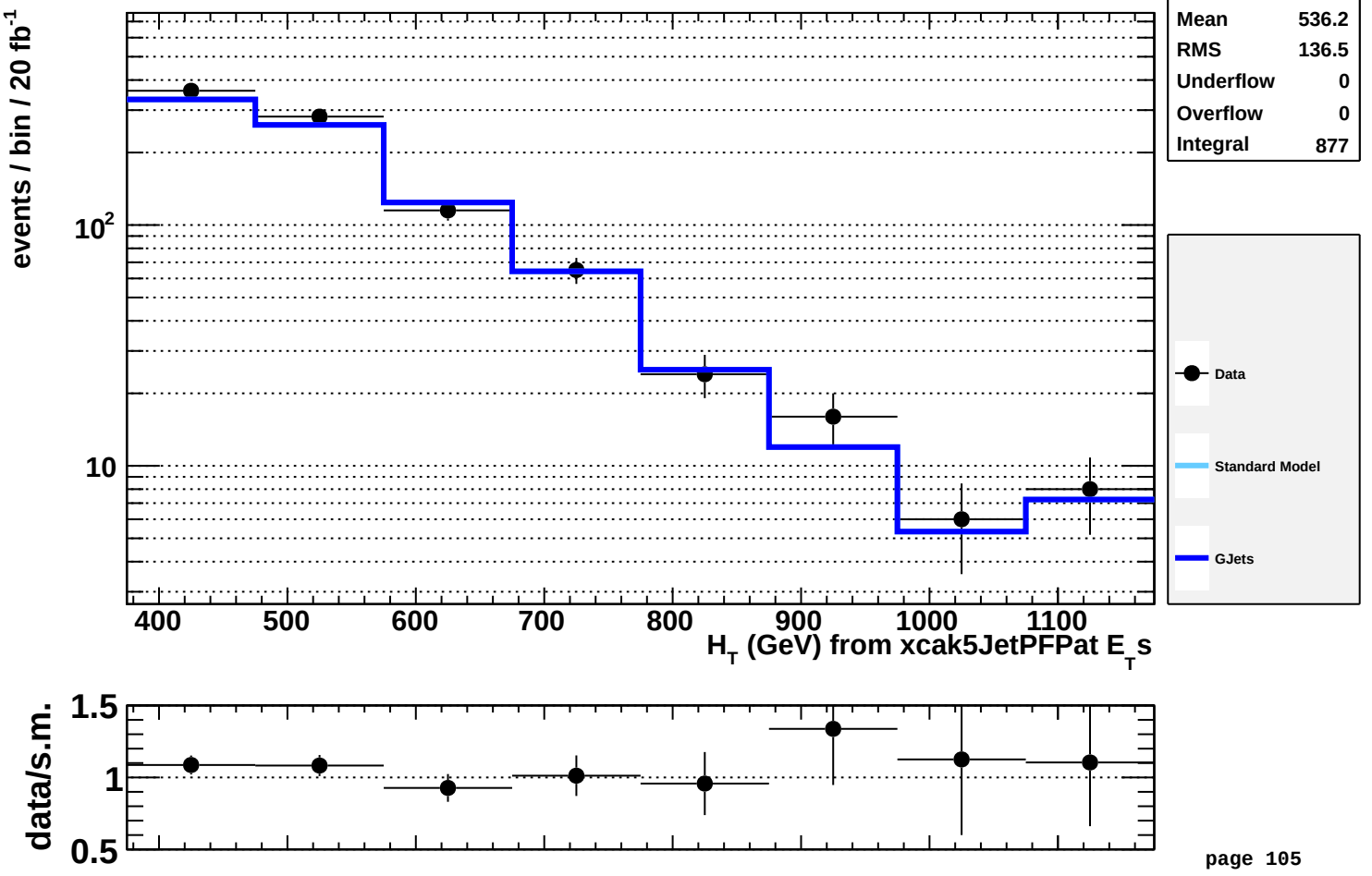

xcak5JetPFSumEtPat_eq3j_eq3b
Entries 2
Mean 472.3
RMS 3.607
Underflow 0
Overflow 0
Integral 0.6296
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ET s

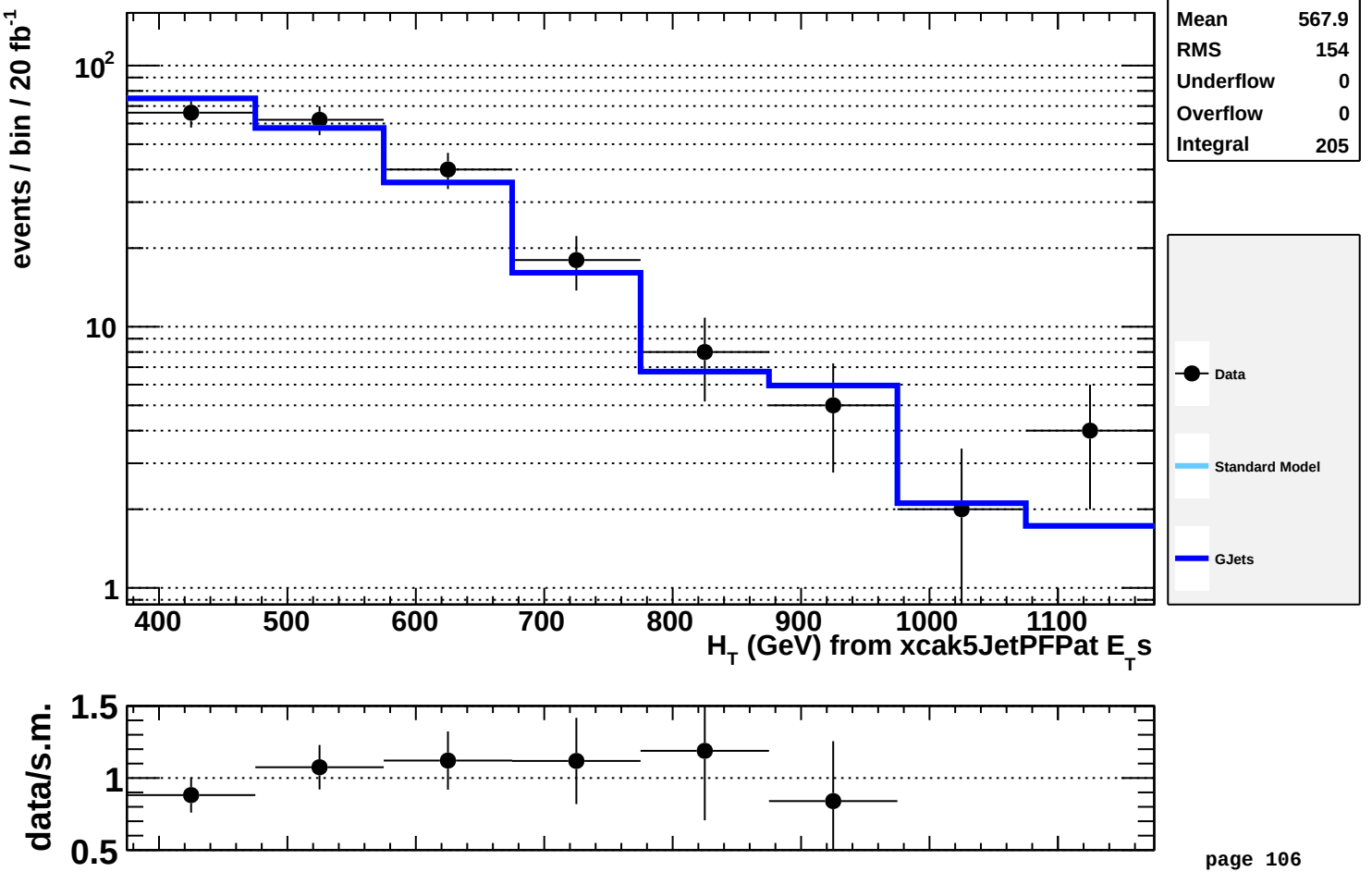

xcak5JetPFSumEtPat_ge4j_eq0b
Entries 1082
Mean 542.2
RMS 140.6
Underflow 0
Overflow 0
Integral 1082
Data
Standard Model
GJets
events / bin / 20 fb-1
10
10^2
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
0.5
1
1.5

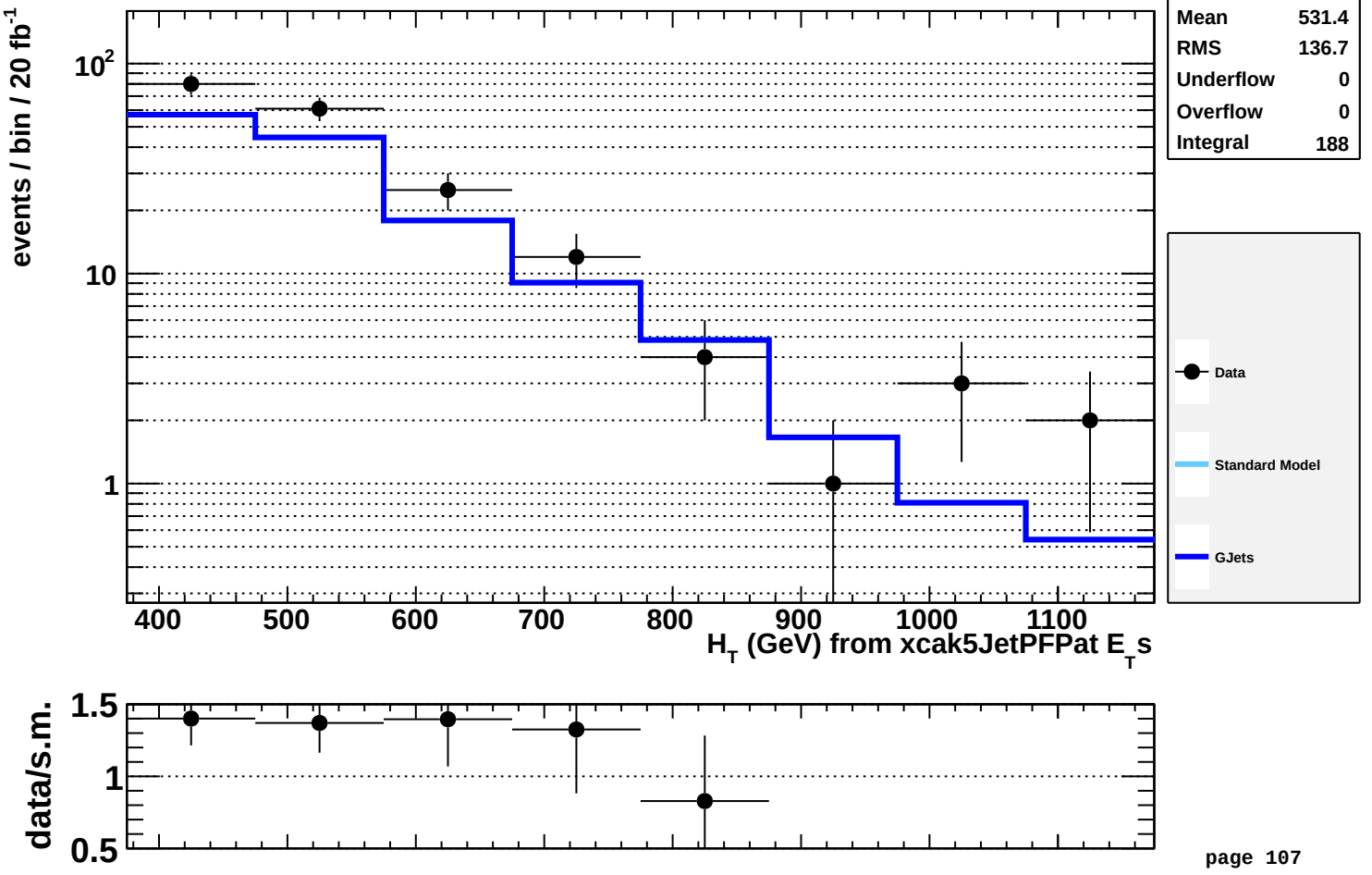

xcak5JetPFSumEtPat_ge4j_eq1b
Entries 238
Mean 538.4
RMS 144.6
Underflow 0
Overflow 0
Integral 238
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

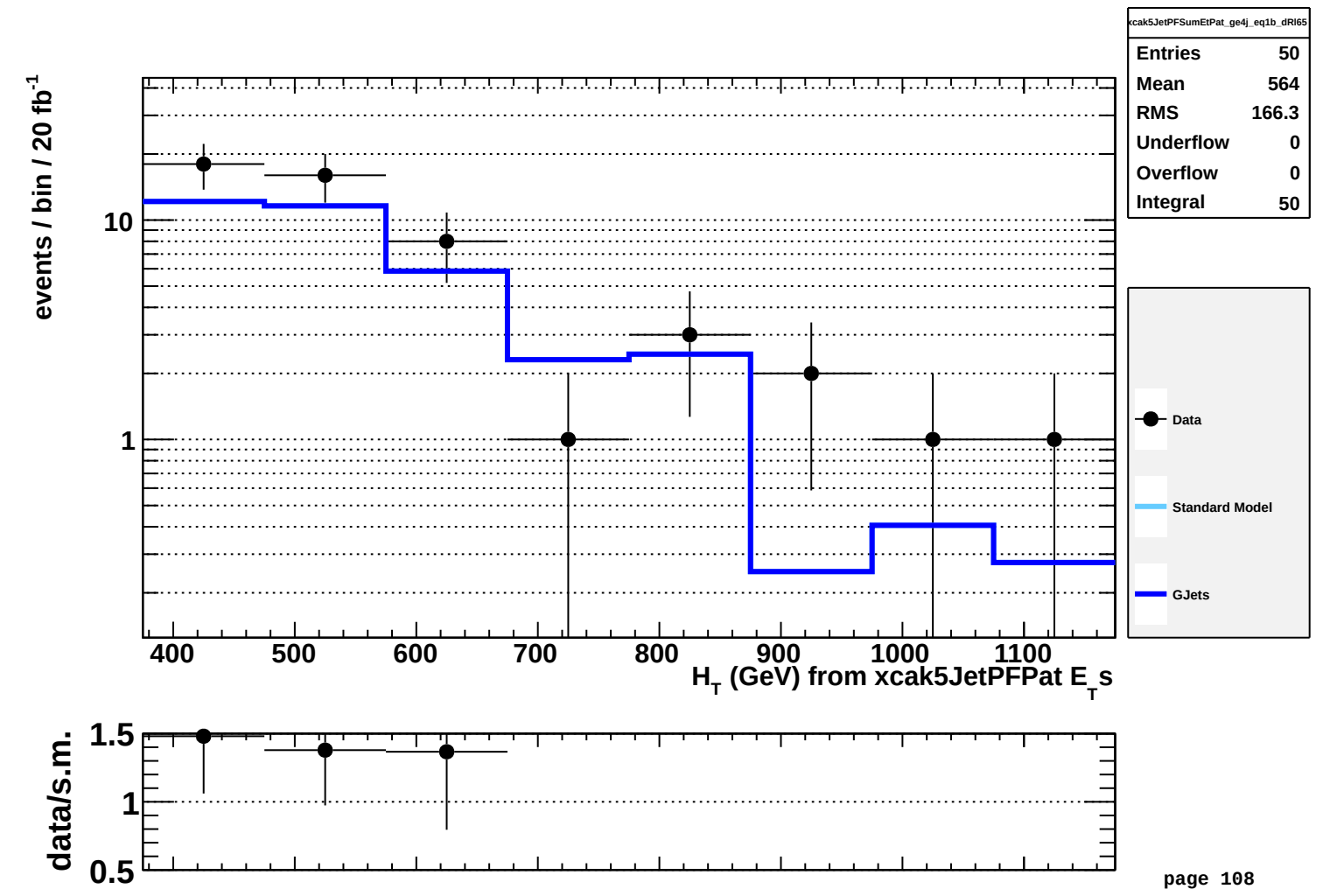

xcak5JetPFSumEtPat_ge4j_eq2b
Entries 54
Mean 558.3
RMS 156.3
Underflow 0
Overflow 0
Integral 54
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

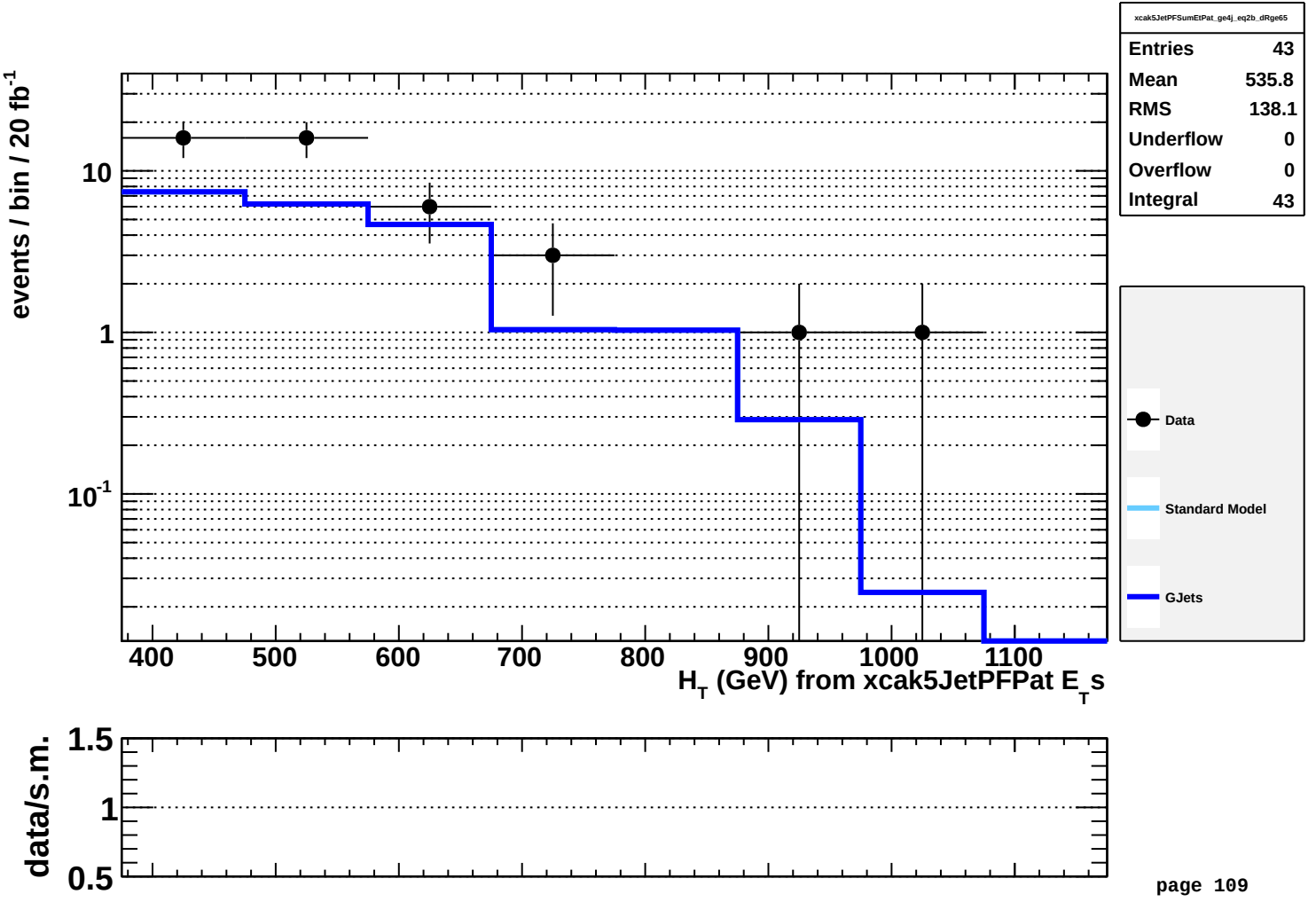

xcak5JetPFSumEtPat_ge4j_eq3b
Entries 1
Mean 430.4
RMS 0
Underflow 0
Overflow 0
Integral 1
Data
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

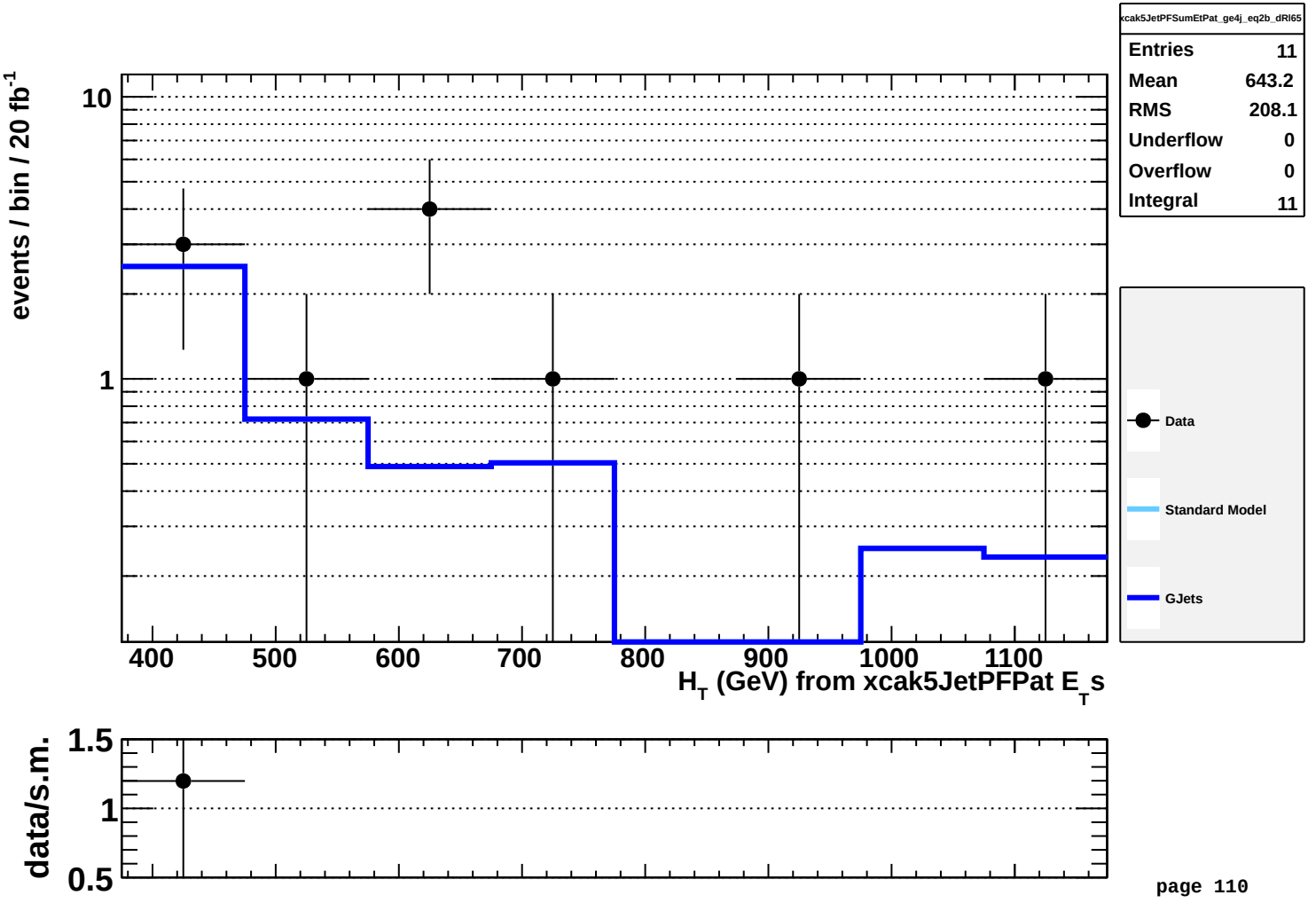

xcak5JetPFSumEtPat_ge4j_eq0b_dRge65
Entries 877
Mean 536.2
RMS 136.5
Underflow 0
Overflow 0
Integral 877
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

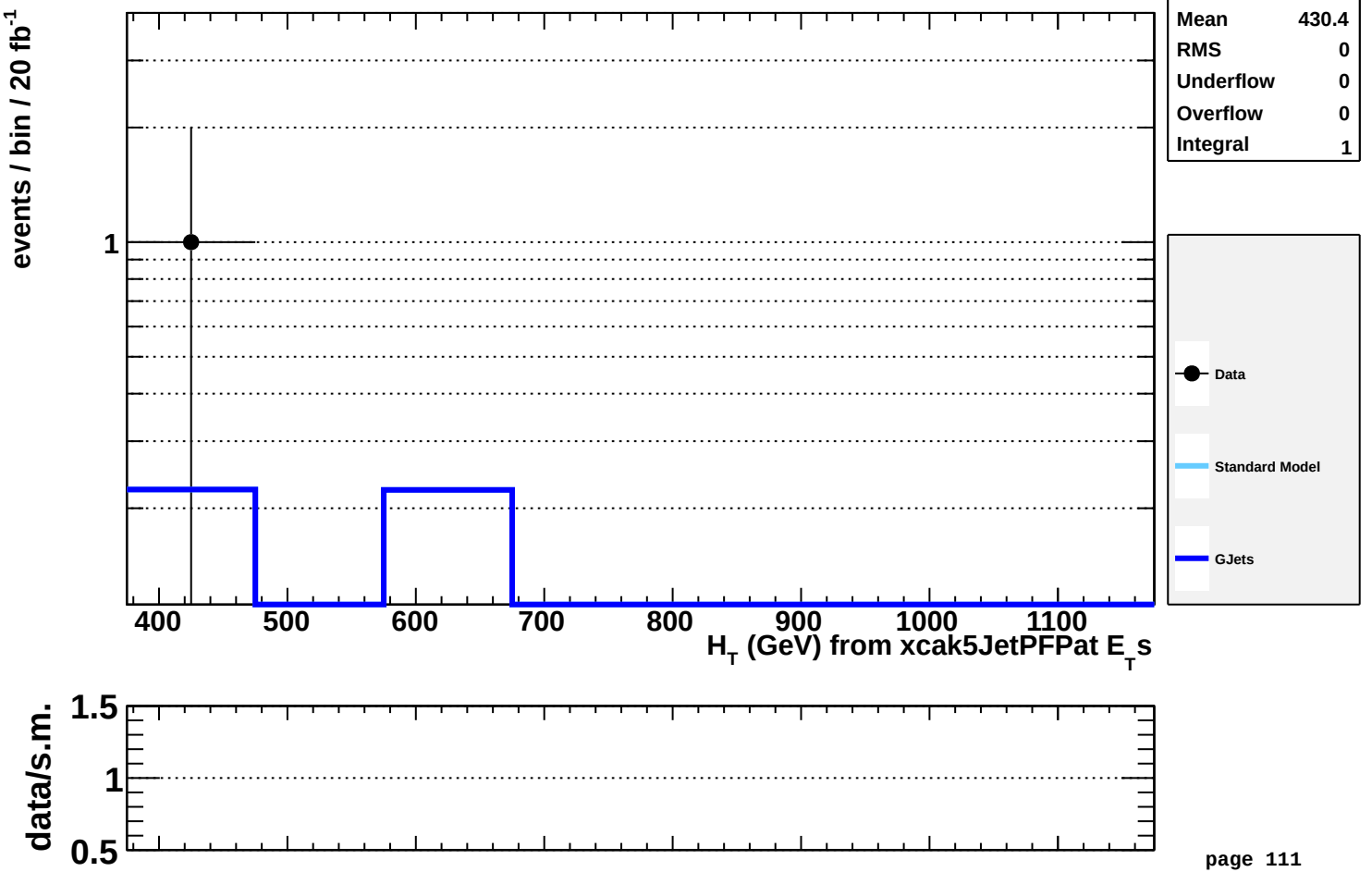

xcak5JetPFSumEtPat_ge4j_eq0b_dRl65
Entries 205
Mean 567.9
RMS 154
Underflow 0
Overflow 0
Integral 205
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

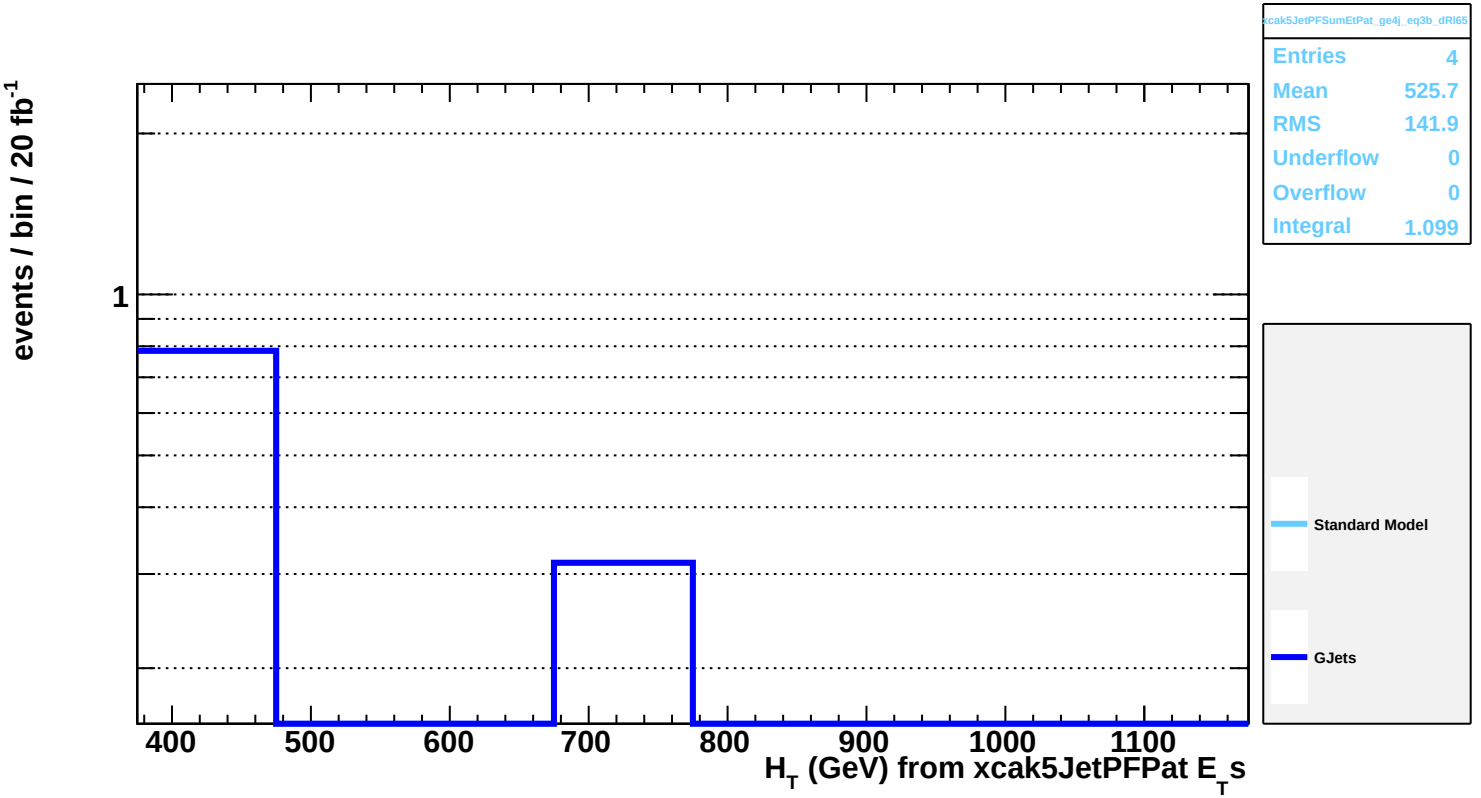

xcak5JetPFSumEtPat_ge4j_eq1b_dRge65
Entries 188
Mean 531.4
RMS 136.7
Underflow 0
Overflow 0
Integral 188
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

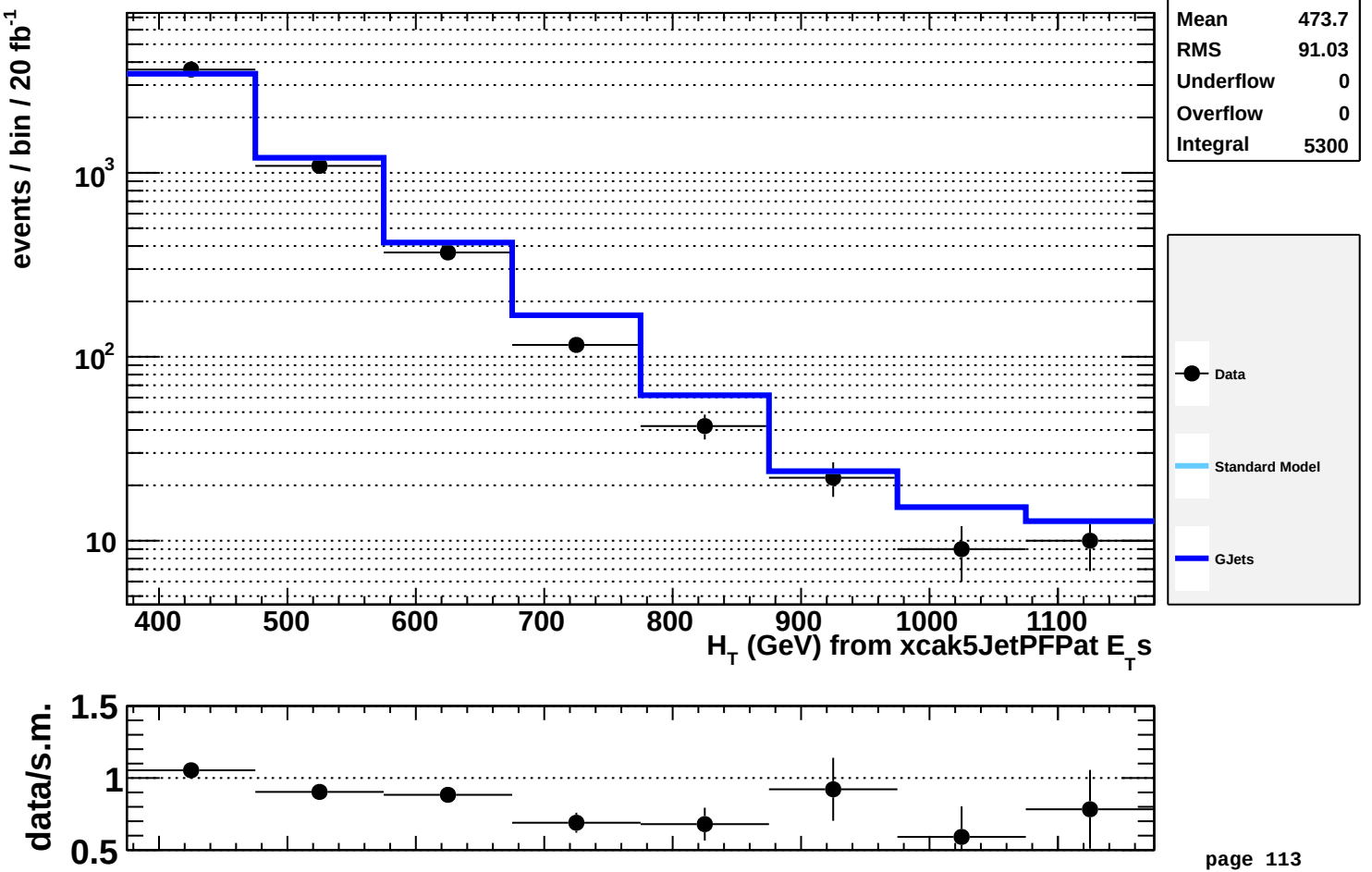

xcak5JetPFSumEtPat_ge4j_eq1b_dRl65
Entries 50
Mean 564
RMS 166.3
Underflow 0
Overflow 0
Integral 50
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ET s
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

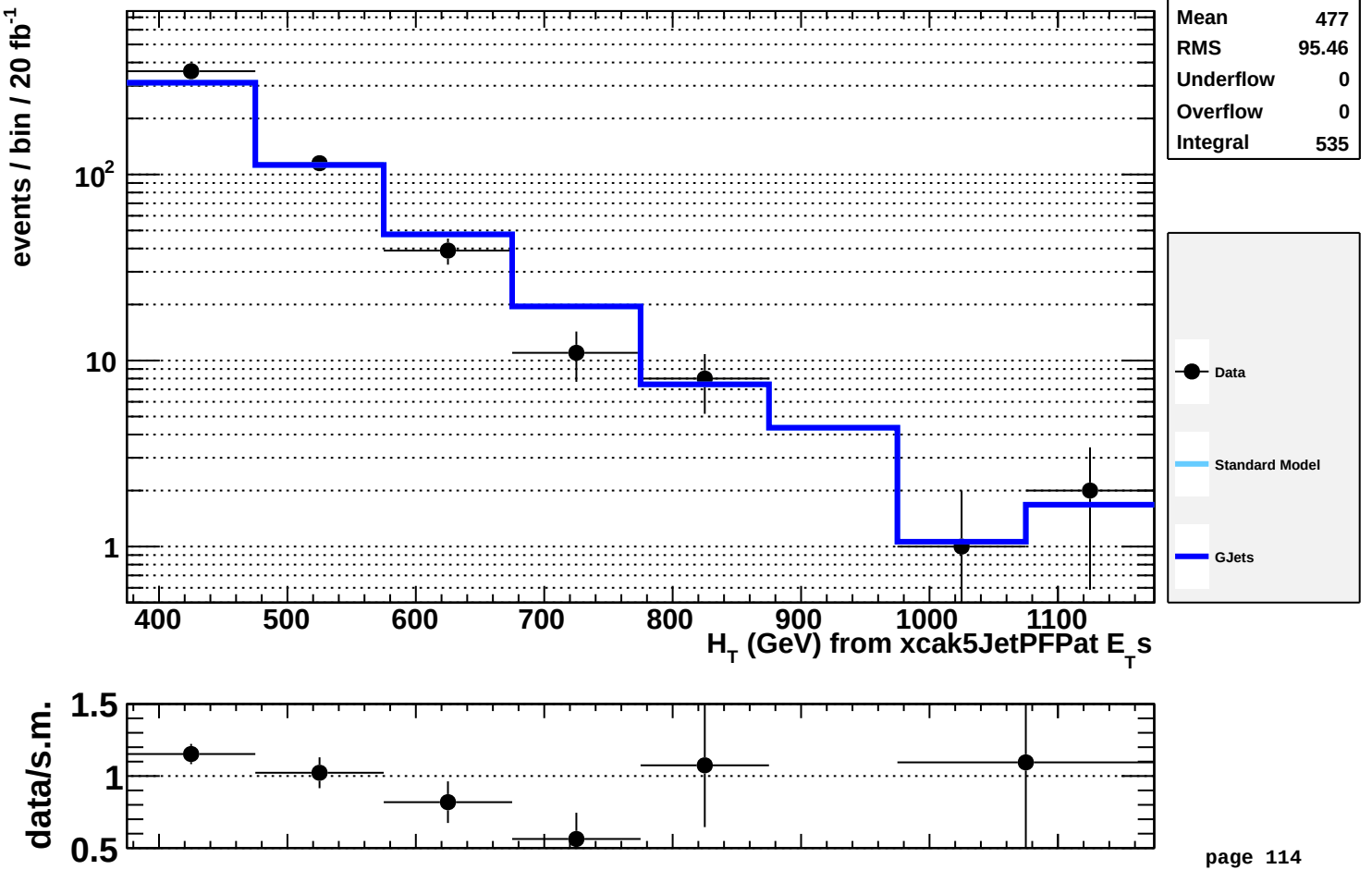

xcak5JetPFSumEtPat_ge4j_eq2b_dRge65
Entries 43
Mean 535.8
RMS 138.1
Underflow 0
Overflow 0
Integral 43
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
10-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

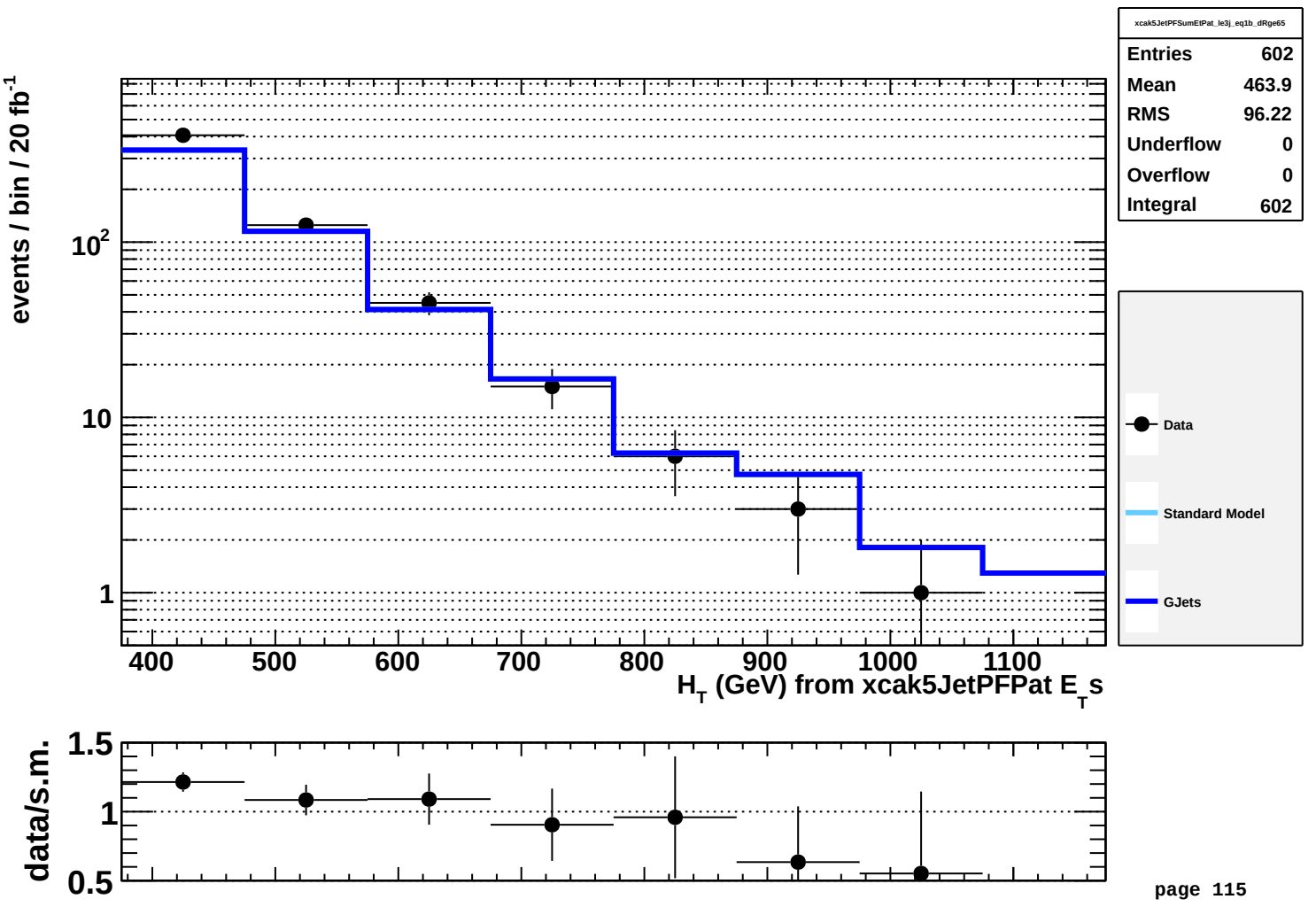

xcak5JetPFSumEtPat_ge4j_eq2b_dRl65
Entries 11
Mean 643.2
RMS 208.1
Underflow 0
Overflow 0
Integral 11
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

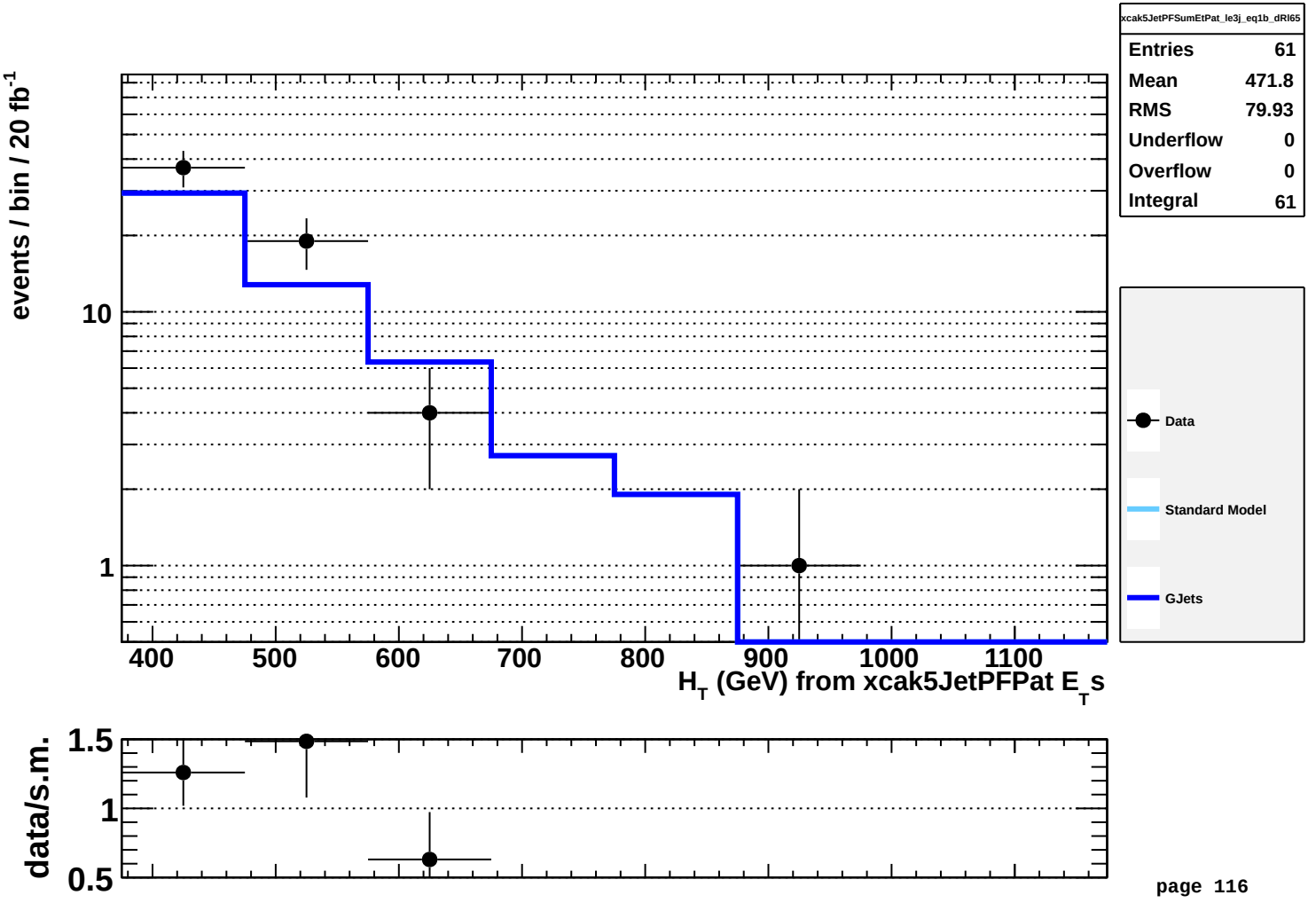

xcak5JetPFSumEtPat_ge4j_eq3b_dRge65
Entries 1
Mean 430.4
RMS 0
Underflow 0
Overflow 0
Integral 1
Data
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5

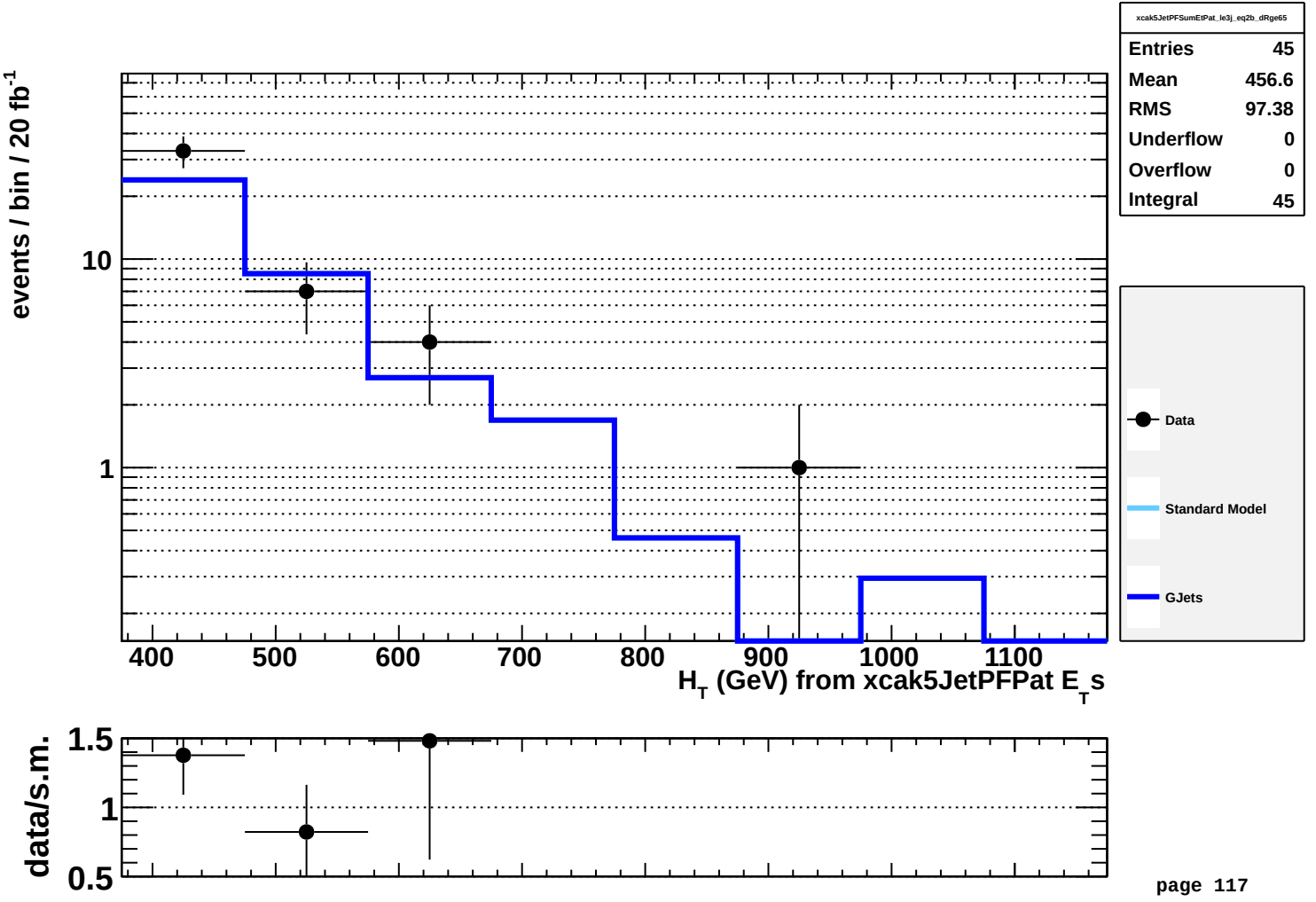

xcak5JetPFSumEtPat_ge4j_eq3b_dRl65
Entries 4
Mean 525.7
RMS 141.9
Underflow 0
Overflow 0
Integral 1.099
Standard Model
GJets
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs

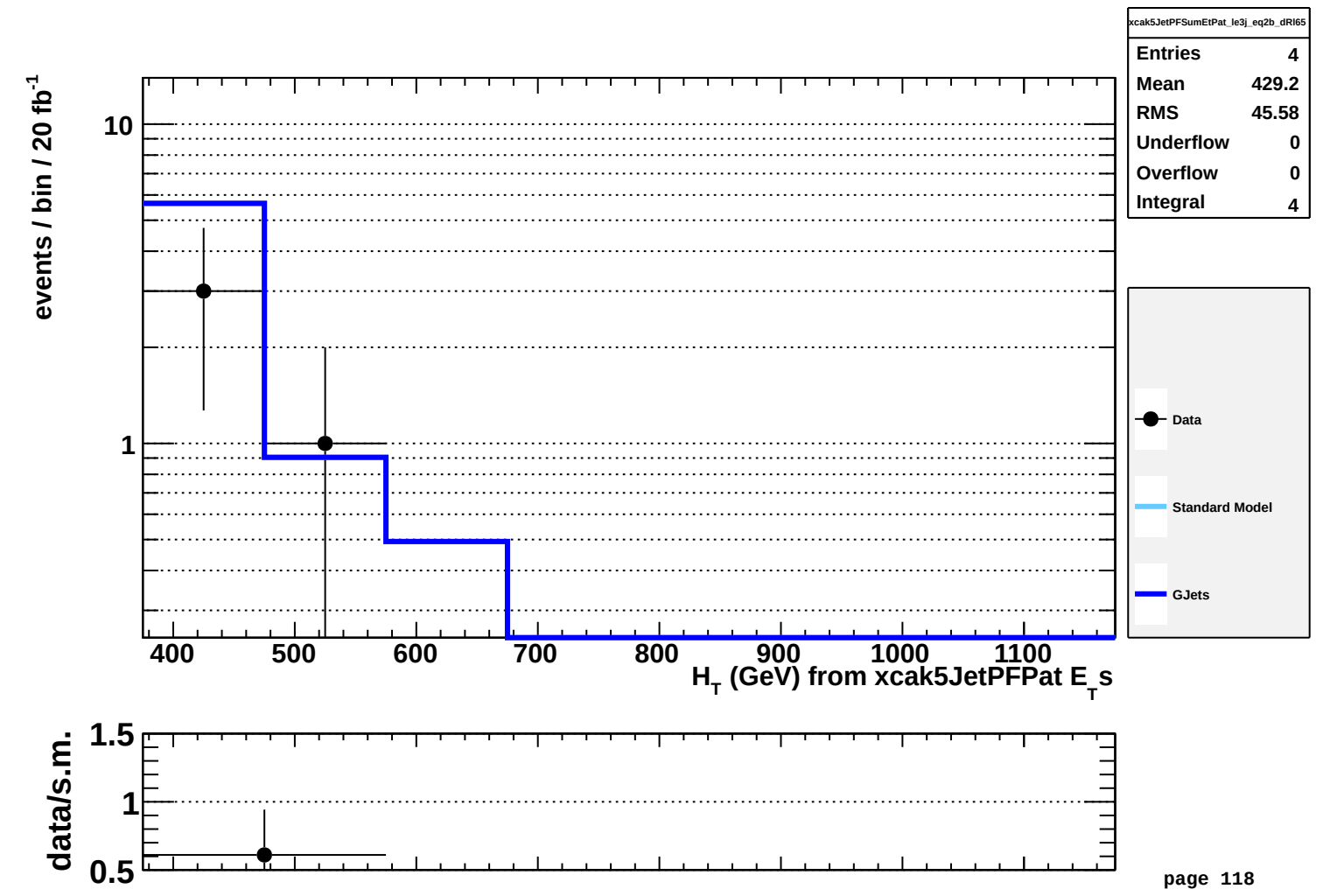

xcak5JetPFSumEtPat_le3j_eq0b_dRge65
Entries 5300
Mean 473.7
RMS 91.03
Underflow 0
Overflow 0
Integral 5300
events / bin / 20 fb-1
10^3
10^2
10
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
Data
Standard Model
GJets
data/s.m.
1.5
1
0.5

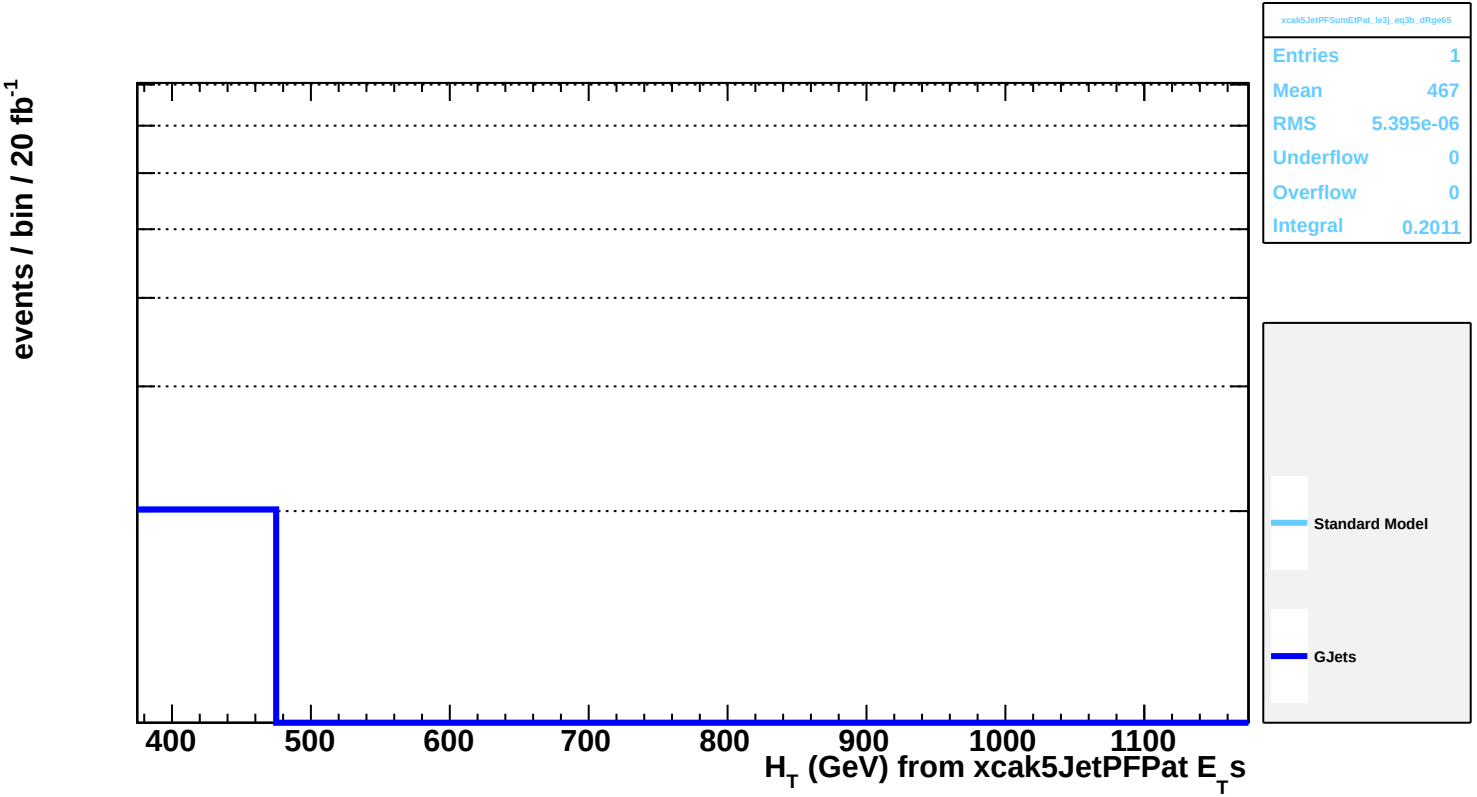

xcak5JetPFSumEtPat_le3j_eq0b_dRl65
Entries 535
Mean 477
RMS 95.46
Underflow 0
Overflow 0
Integral 535
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

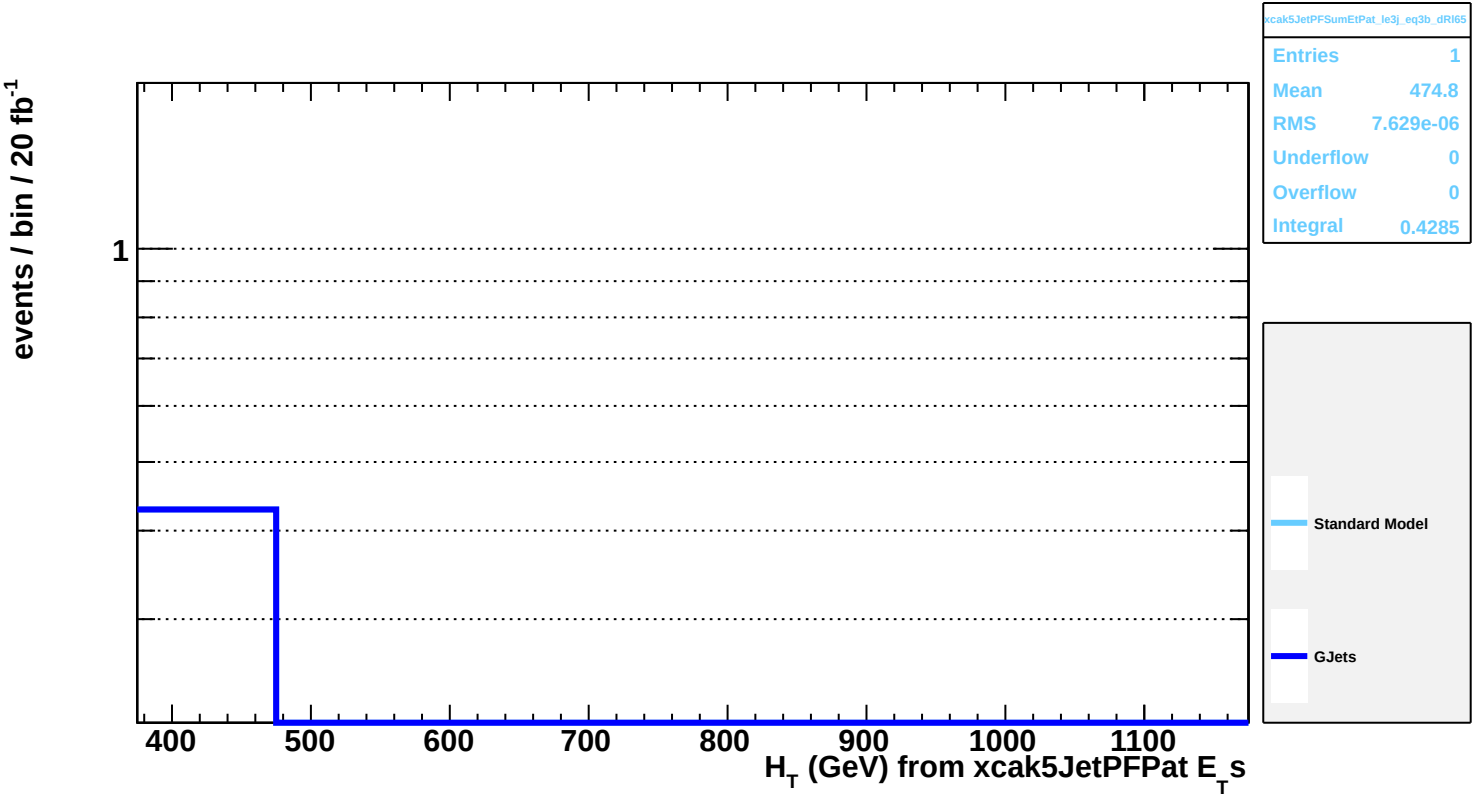

xcak5JetPFSumEtPat_le3j_eq1b_dRge65
Entries 602
Mean 463.9
RMS 96.22
Underflow 0
Overflow 0
Integral 602
Data
Standard Model
GJets
events / bin / 20 fb-1
10^2
10
1
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

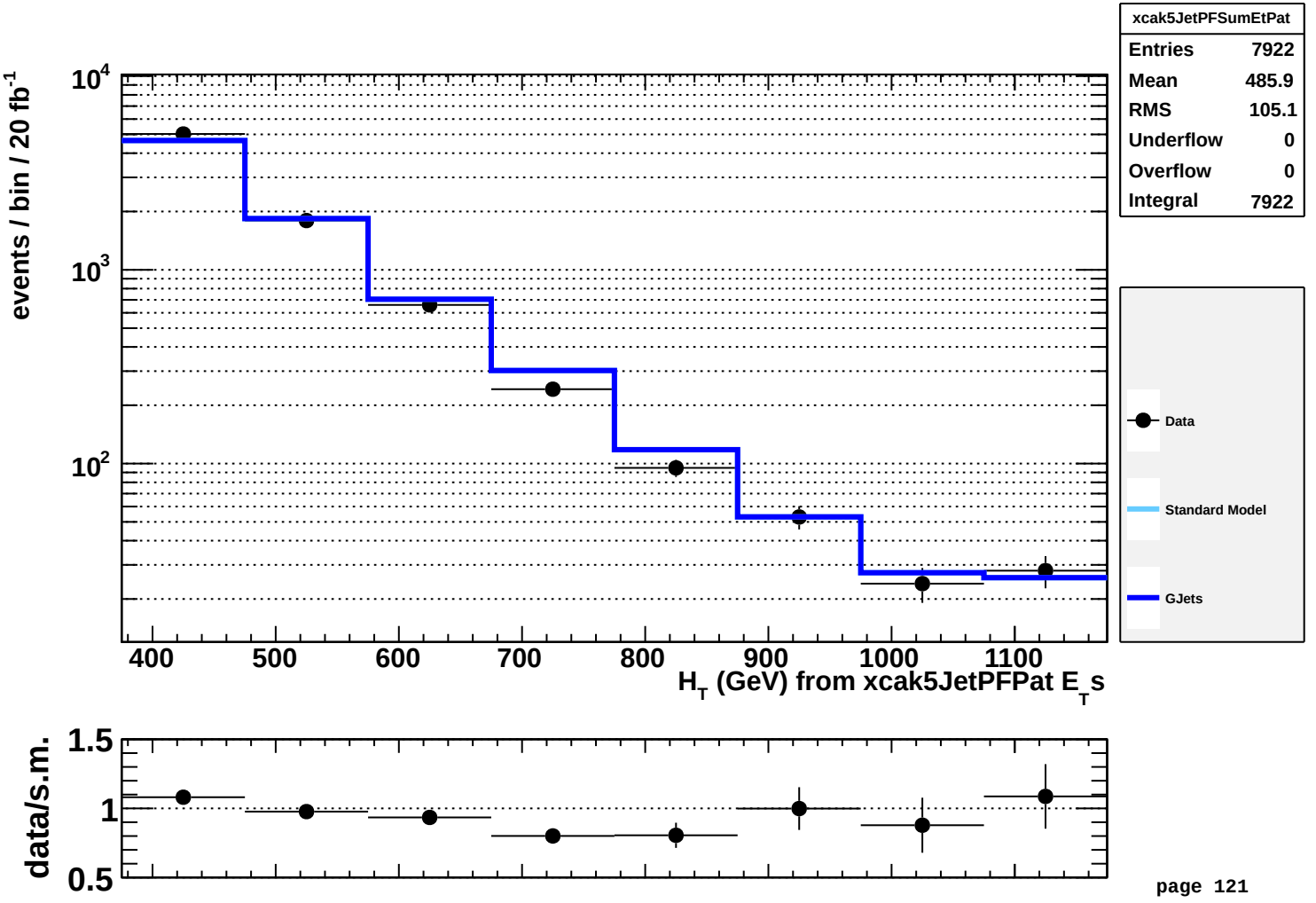

xcak5JetPFSumEtPat_le3j_eq1b_dRl65
Entries 61
Mean 471.8
RMS 79.93
Underflow 0
Overflow 0
Integral 61
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_le3j_eq2b_dRge65
Entries 45
Mean 456.6
RMS 97.38
Underflow 0
Overflow 0
Integral 45
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_le3j_eq2b_dRl65
Entries 4
Mean 429.2
RMS 45.58
Underflow 0
Overflow 0
Integral 4
Data
Standard Model
GJets
events / bin / 20 fb-1
10
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ETs
data/s.m.
1.5
1
0.5


xcak5JetPFSumEtPat_le3j_eq3b_dRge65
Entries 1
Mean 467
RMS 5.395e-06
Underflow 0
Overflow 0
Integral 0.2011
Standard Model
GJets
events / bin / 20 fb-1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ET s


xcak5JetPFSumEtPat_le3j_eq3b_dRl65
Entries 1
Mean 474.8
RMS 7.629e-06
Underflow 0
Overflow 0
Integral 0.4285
events / bin / 20 fb-1
1
400
500
600
700
800
900
1000
1100
HT (GeV) from xcak5JetPFPat ET s
Standard Model
GJets


xcak5JetPFSumEtPat
Entries 7922
Mean 485.9
RMS 105.1
Underflow 0
Overflow 0
Integral 7922
Data
Standard Model
GJets
events / bin / 20 fb-1
10^4
10^3
10^2
400
500
600
700
800
900
1000
1100
H_T (GeV) from xcak5JetPFPat E_T s
data/s.m.
1.5
1
0.5

z:	multiplicity	0 <= electronIndicesPF <= 0
A:	multiplicity	0 <= muonIndicesPF <= 0
B:	multiplicity	0 <= electronIndicesUnmatchedPF <= 0
C:	multiplicity	0 <= photonIndicesUnmatchedPat <= 0
D:	deadEcalFilter	xcak5JetPFPat; dR>0.300 when deltaPhiStar<0.500
E:	pt	165.00<=photonP4Pat[i[0]].pt; photonIndicesPat
F:	absEta	0.00<=photonP4Pat[i[0]].absEta<=1.44; photonIndicesPat
G:	DeltaRGreaterSelector	xcak5JetPFPat; DR(photonPat[i[0]], jet) > 1.00
H:	multiplicity	1 <= photonIndicesPat <= 1
I:	value	xcak5JetPFMhthighPtPatOvermetP4TypeIPFPlusphotonIndicesPat<=1.25
J:	value	0.55<=xcak5JetPFAlphaTEtPat
K:	value	475.00<=xcak5JetPFSumEtPat
L:	value	575.00<=xcak5JetPFSumEtPat
M:	value	675.00<=xcak5JetPFSumEtPat
N:	value	775.00<=xcak5JetPFSumEtPat
O:	value	875.00<=xcak5JetPFSumEtPat
P:	value	975.00<=xcak5JetPFSumEtPat
Q:	value	1075.00<=xcak5JetPFSumEtPat

	Data	Standard Model	GJets	data/s.m.
z:	11015040	2.1413(8)e+6	2.1413(8)e+6	5.144(2)
A:	11009428	2.1411(8)e+6	2.1411(8)e+6	5.142(2)
B:	11008013	2.1407(8)e+6	2.1407(8)e+6	5.142(2)
C:	11007336	2.1400(8)e+6	2.1400(8)e+6	5.144(2)
D:	3388782	6.377(4)e+5	6.377(4)e+5	5.314(5)
E:	39894	3.98(1)e+4	3.98(1)e+4	1.003(6)
F:	34809	3.517(10)e+4	3.517(10)e+4	0.990(6)
G:	29593	2.988(9)e+4	2.988(9)e+4	0.990(6)
H:	29478	2.987(9)e+4	2.987(9)e+4	0.987(6)
I:	27953	2.855(9)e+4	2.855(9)e+4	0.979(7)
J:	7922	7.72(5)e+3	7.72(5)e+3	1.03(1)
K:	2897	3.07(3)e+3	3.07(3)e+3	0.94(2)
L:	1101	1.23(2)e+3	1.23(2)e+3	0.89(3)
M:	442	5.3(1)e+2	5.3(1)e+2	0.84(4)
N:	200	224(8)	224(8)	0.89(7)
O:	105	106(5)	106(5)	1.0(1)
P:	52	53(4)	53(4)	1.0(2)
Q:	28	26(3)	26(3)	1.1(2)