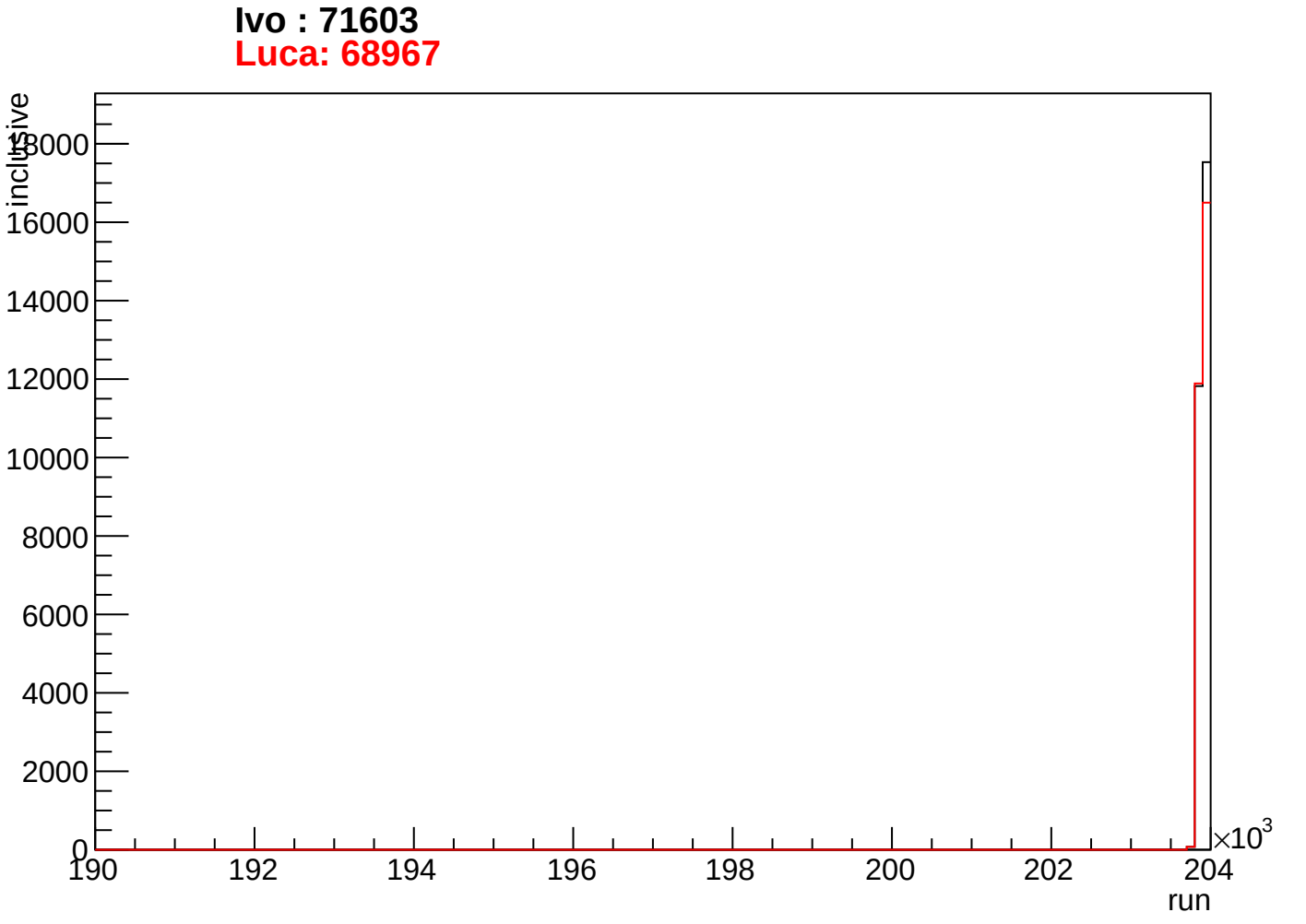
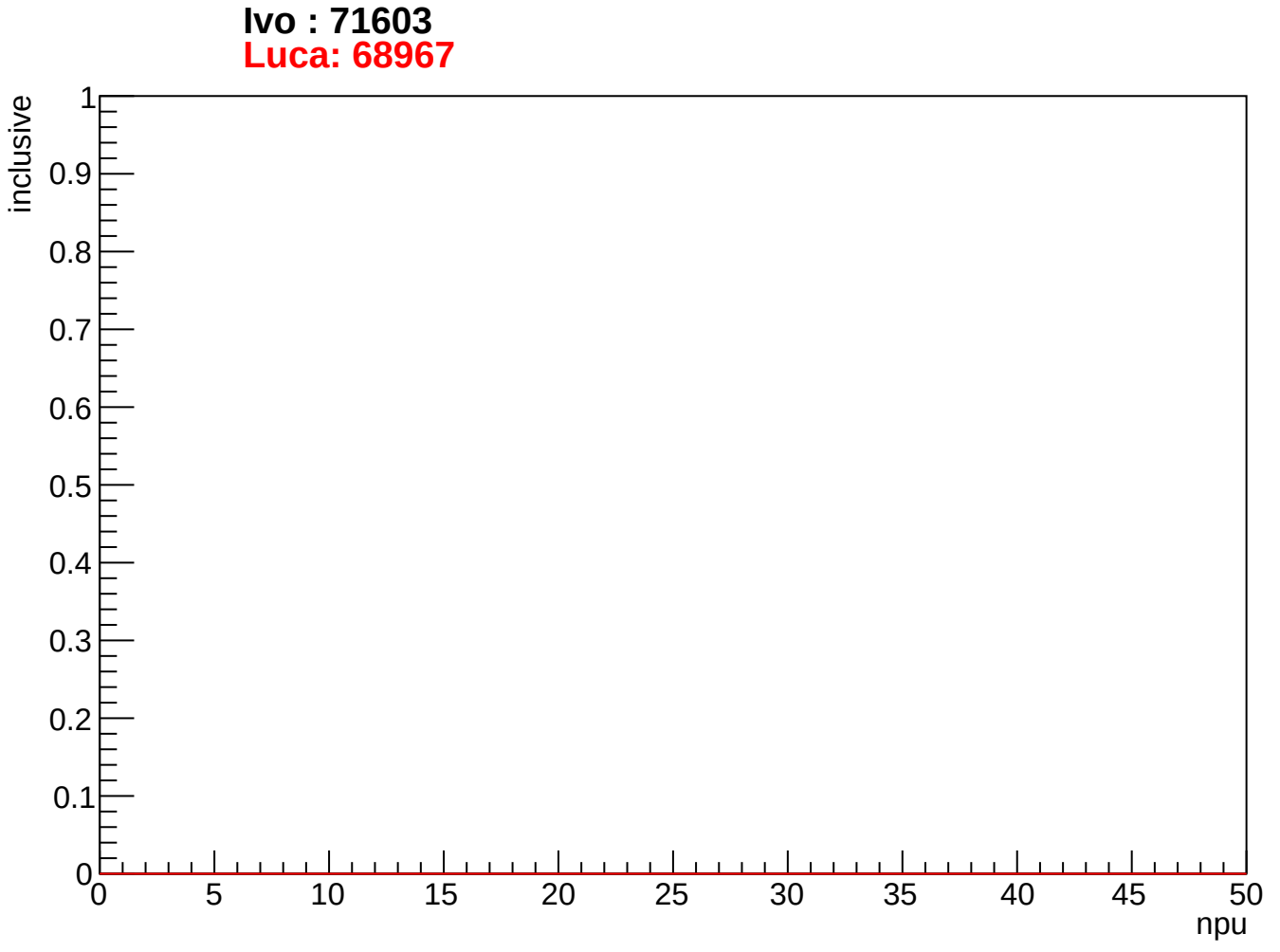
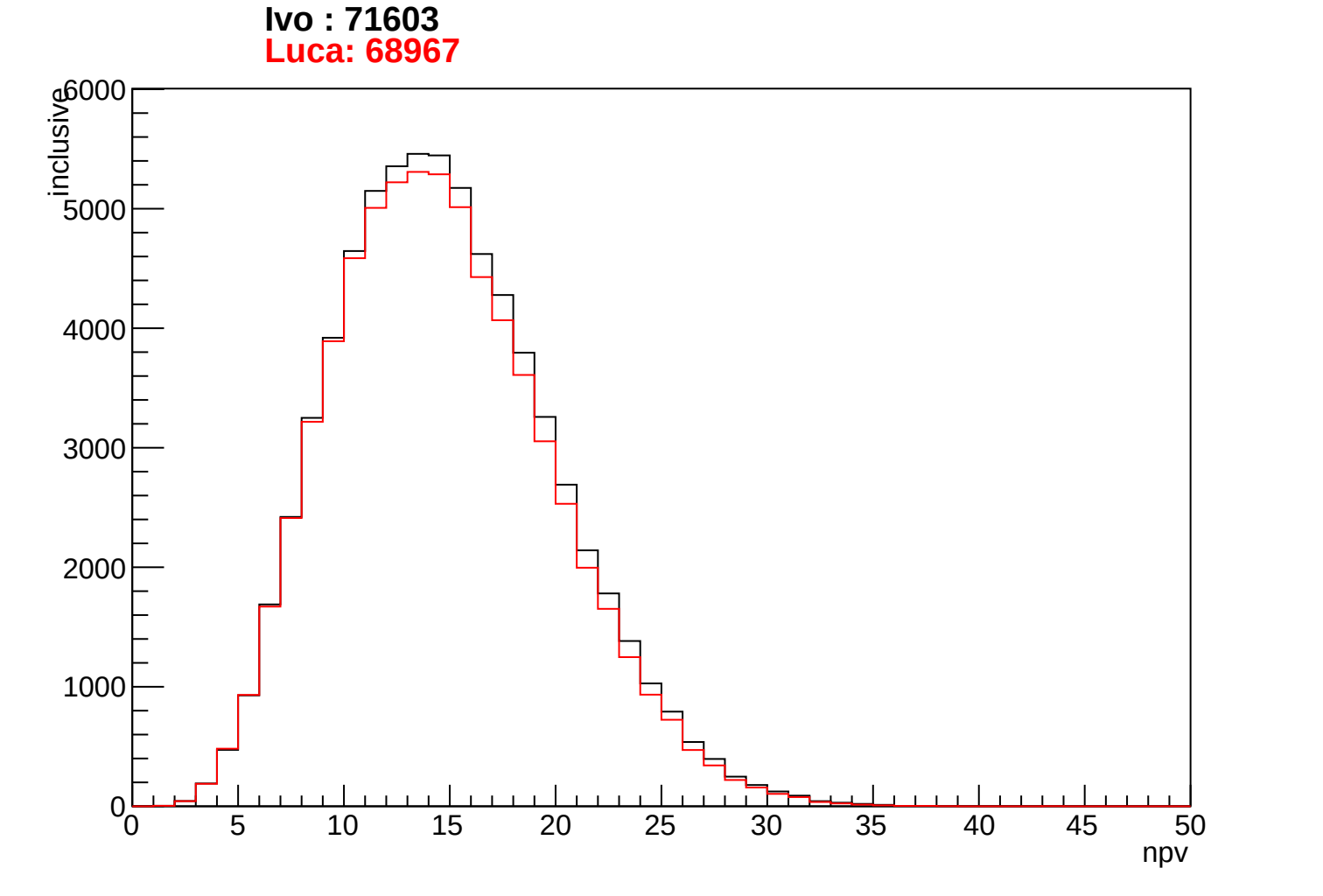
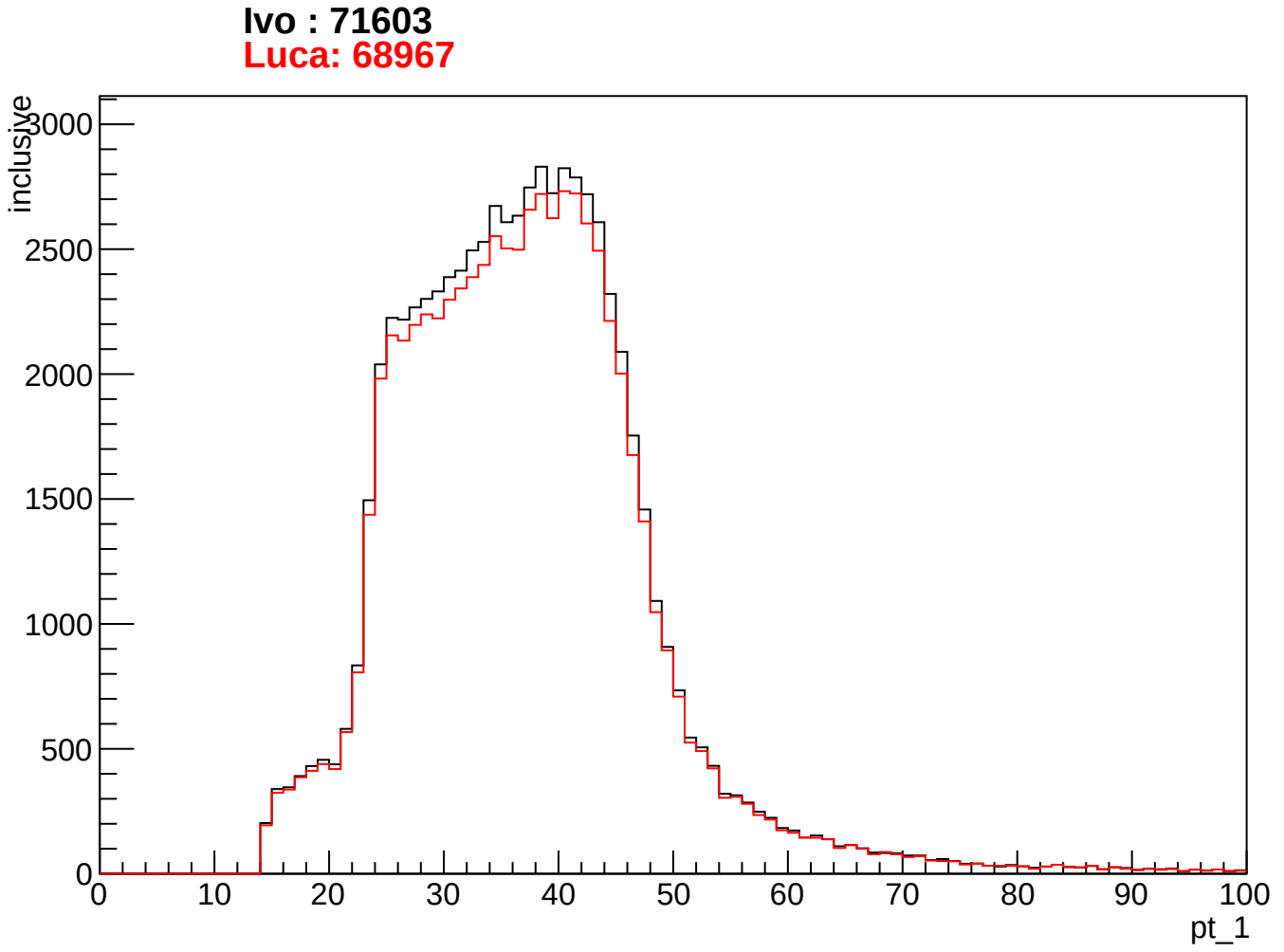

Ivo : 71603
Luca: 68967
inclusive
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
190
192
194
196
198
200
202
204
×10^3
run


Ivo : 71603
Luca: 68967
inclusive
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5
10
15
20
25
30
35
40
45
50
npu


Ivo : 71603
Luca: 68967
inclusive
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
45
50
npv


Ivo : 71603
Luca: 68967
inclusive
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2500
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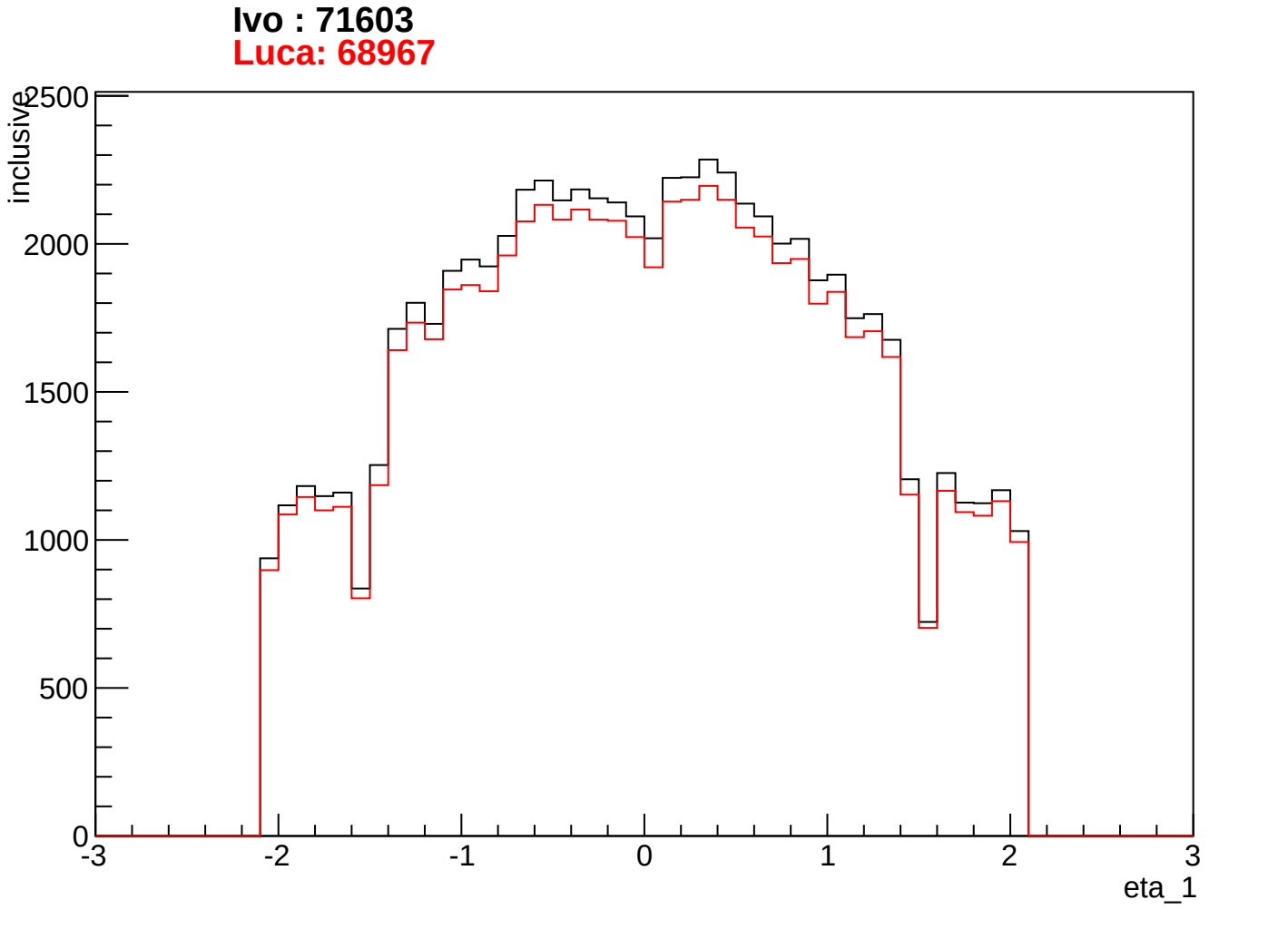
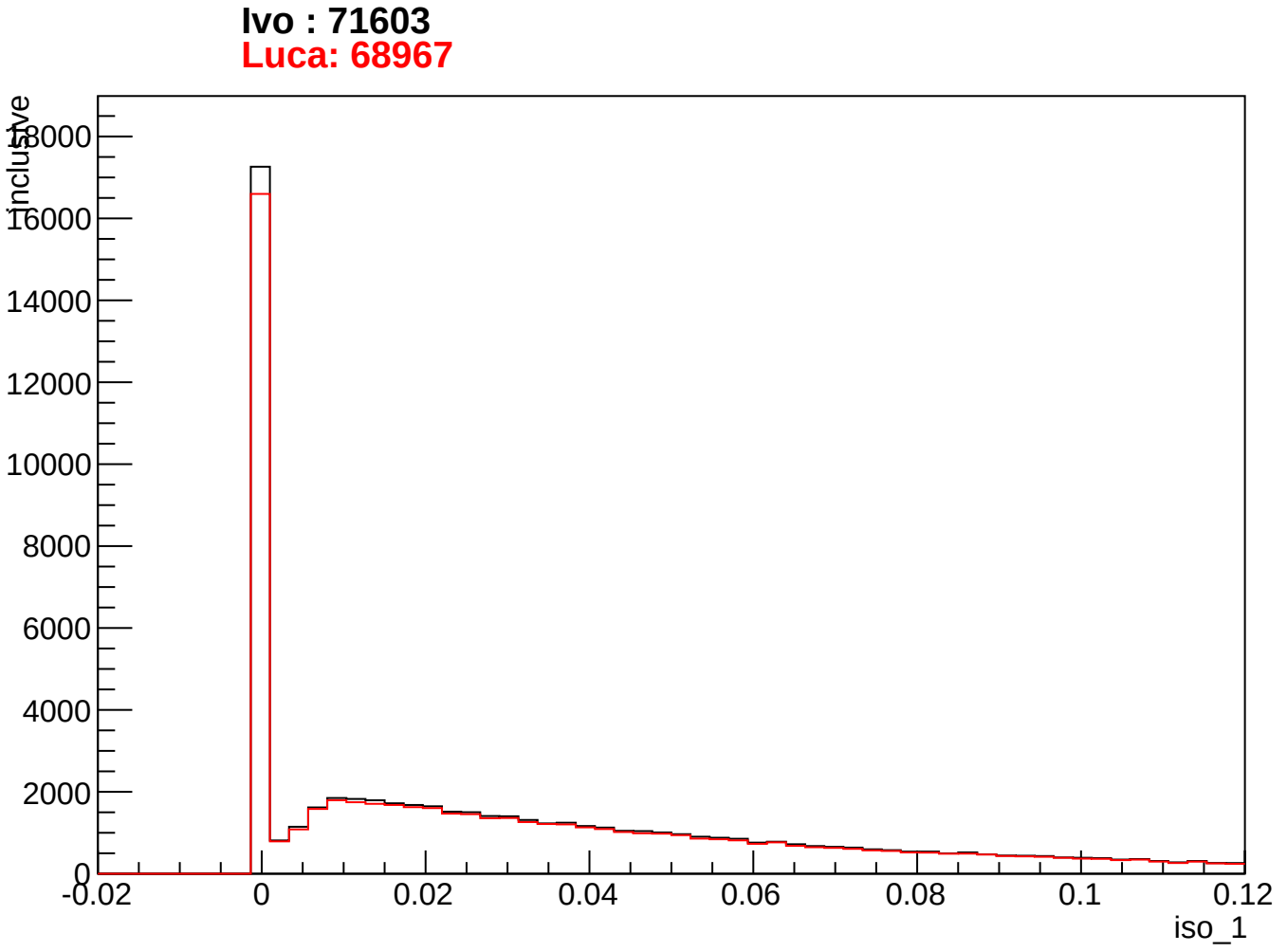
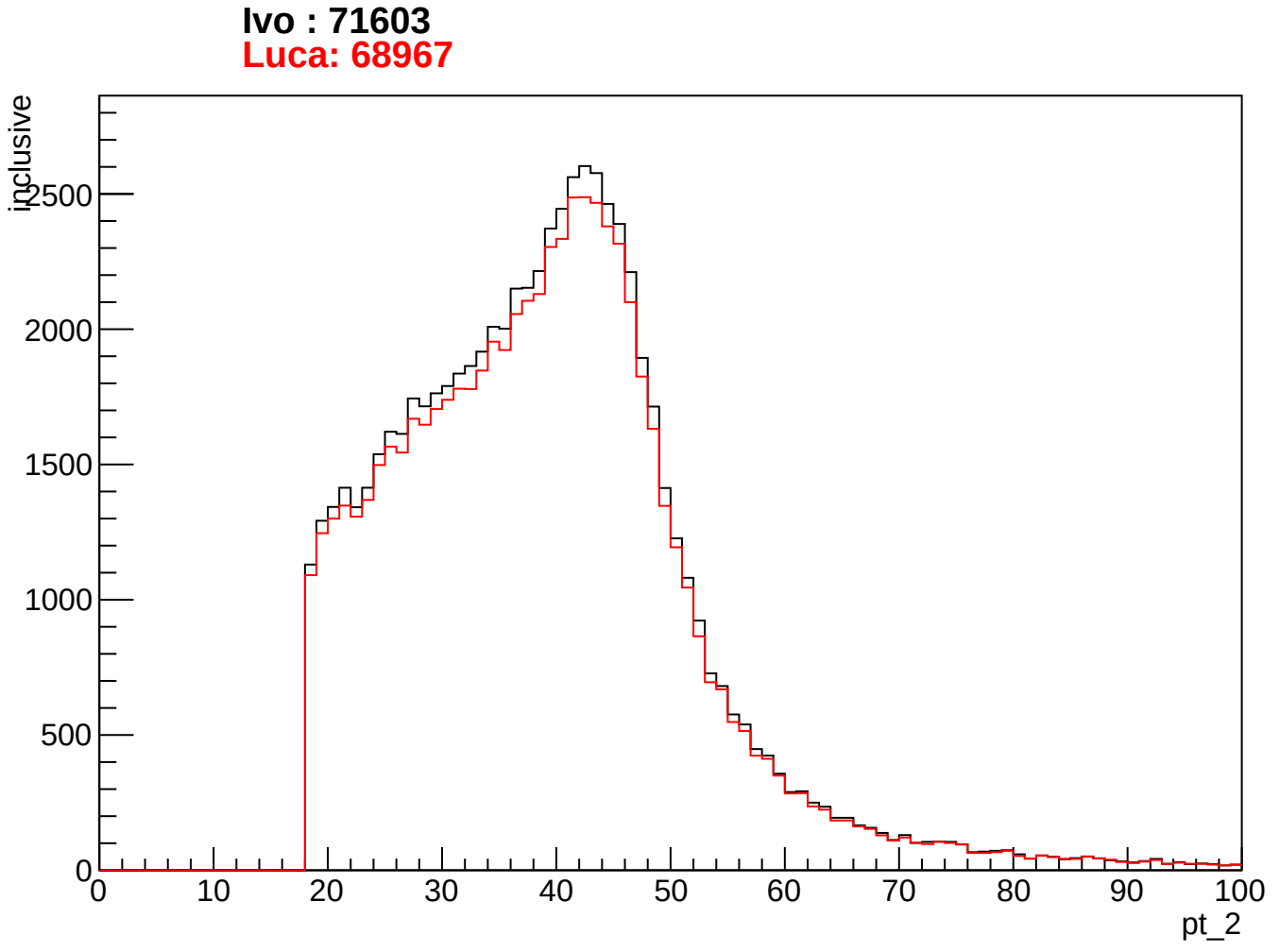
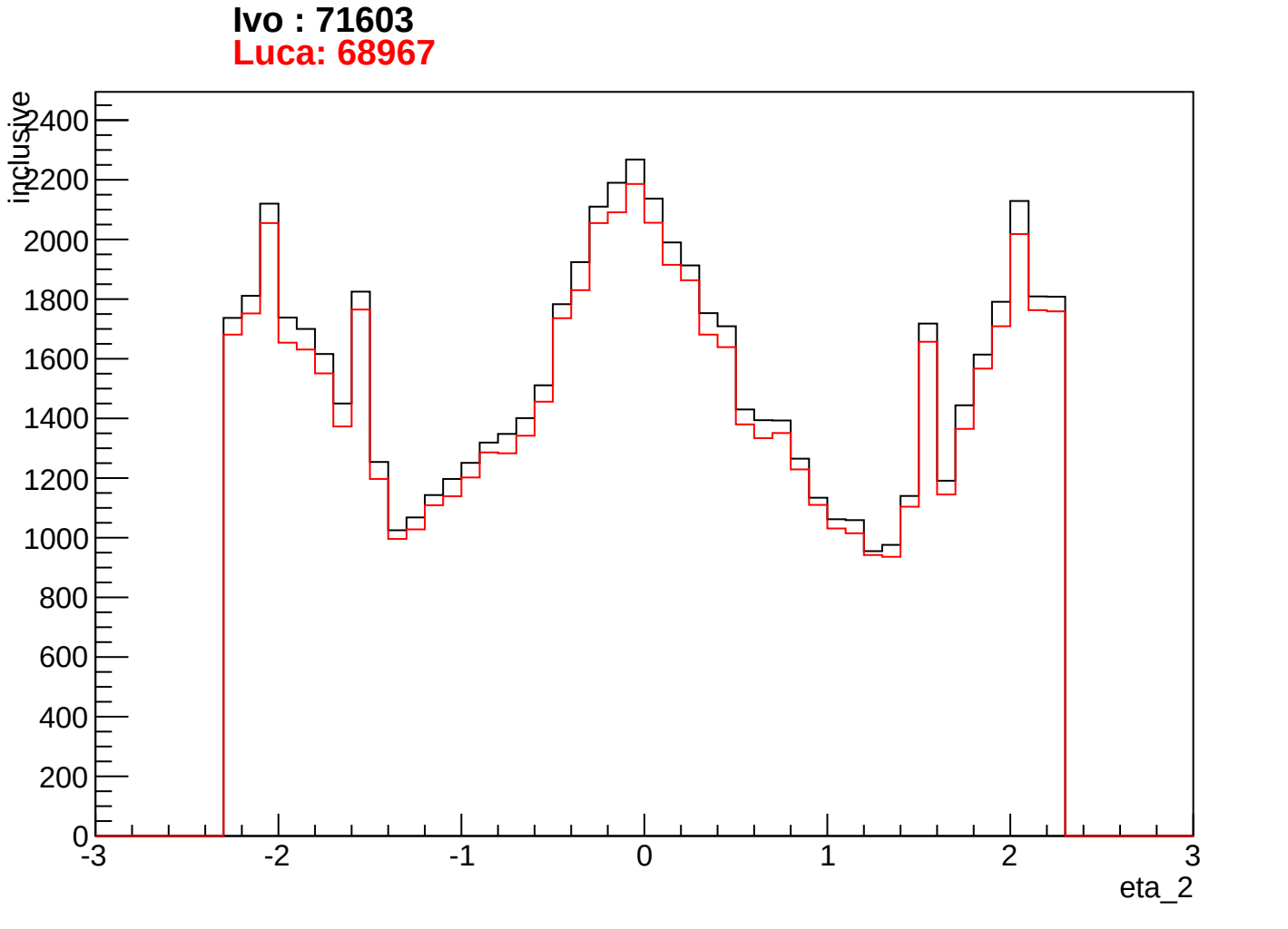
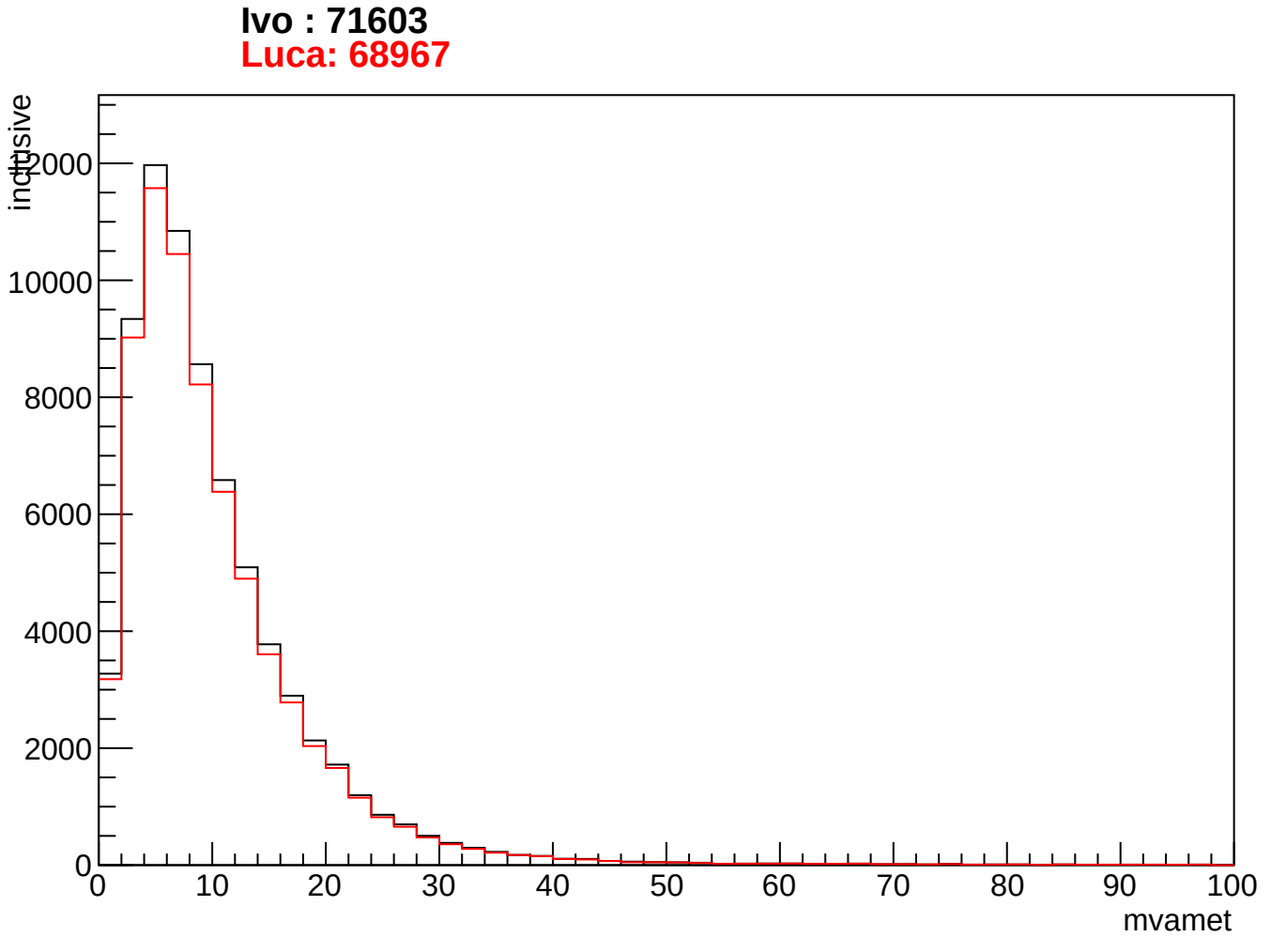
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
pt_1

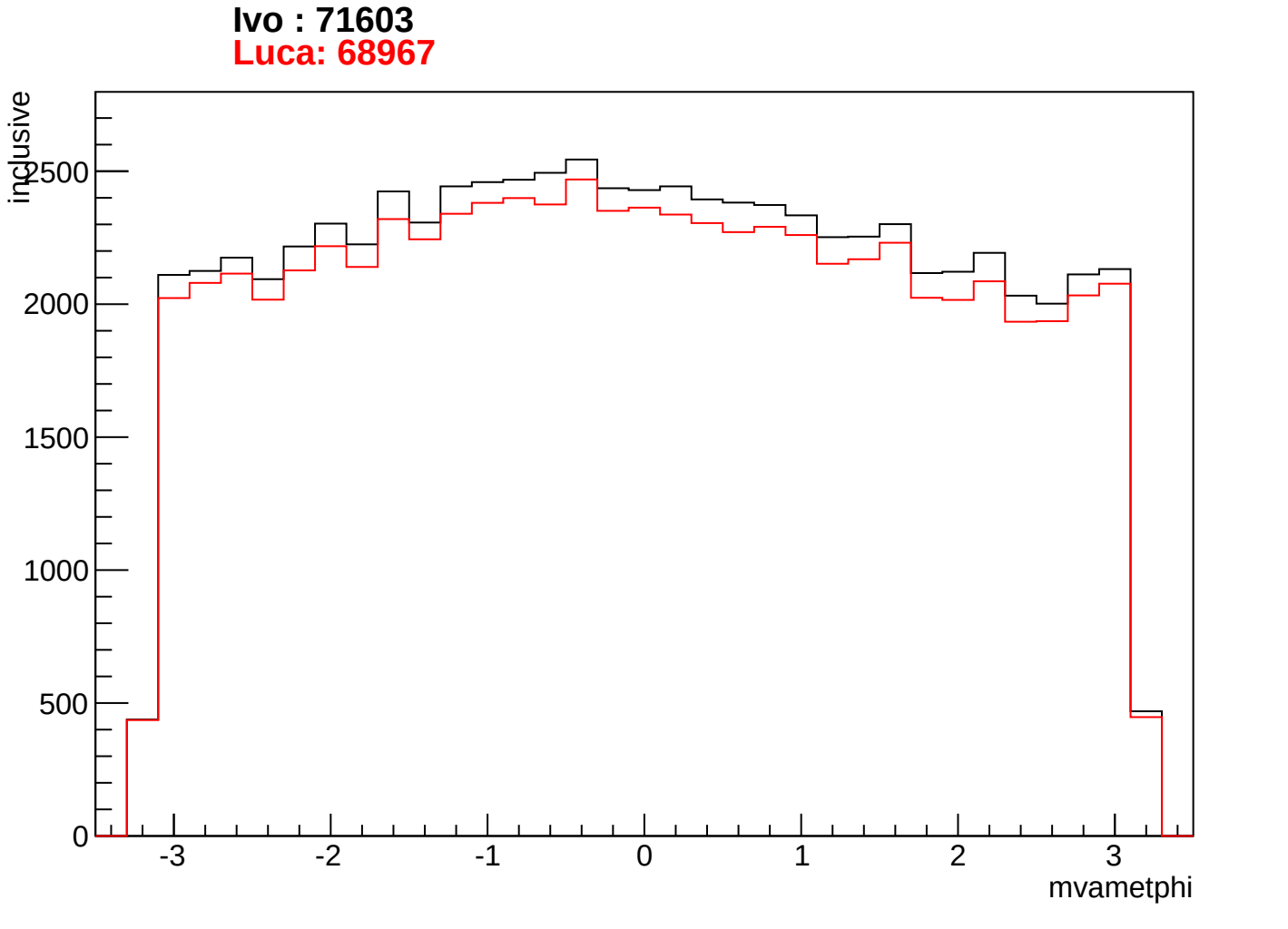

Ivo : 71603
Luca: 68967
inclusive
2500
2000
1500
1000
500
0
-3
-2
-1
0
1
2
3
eta_1

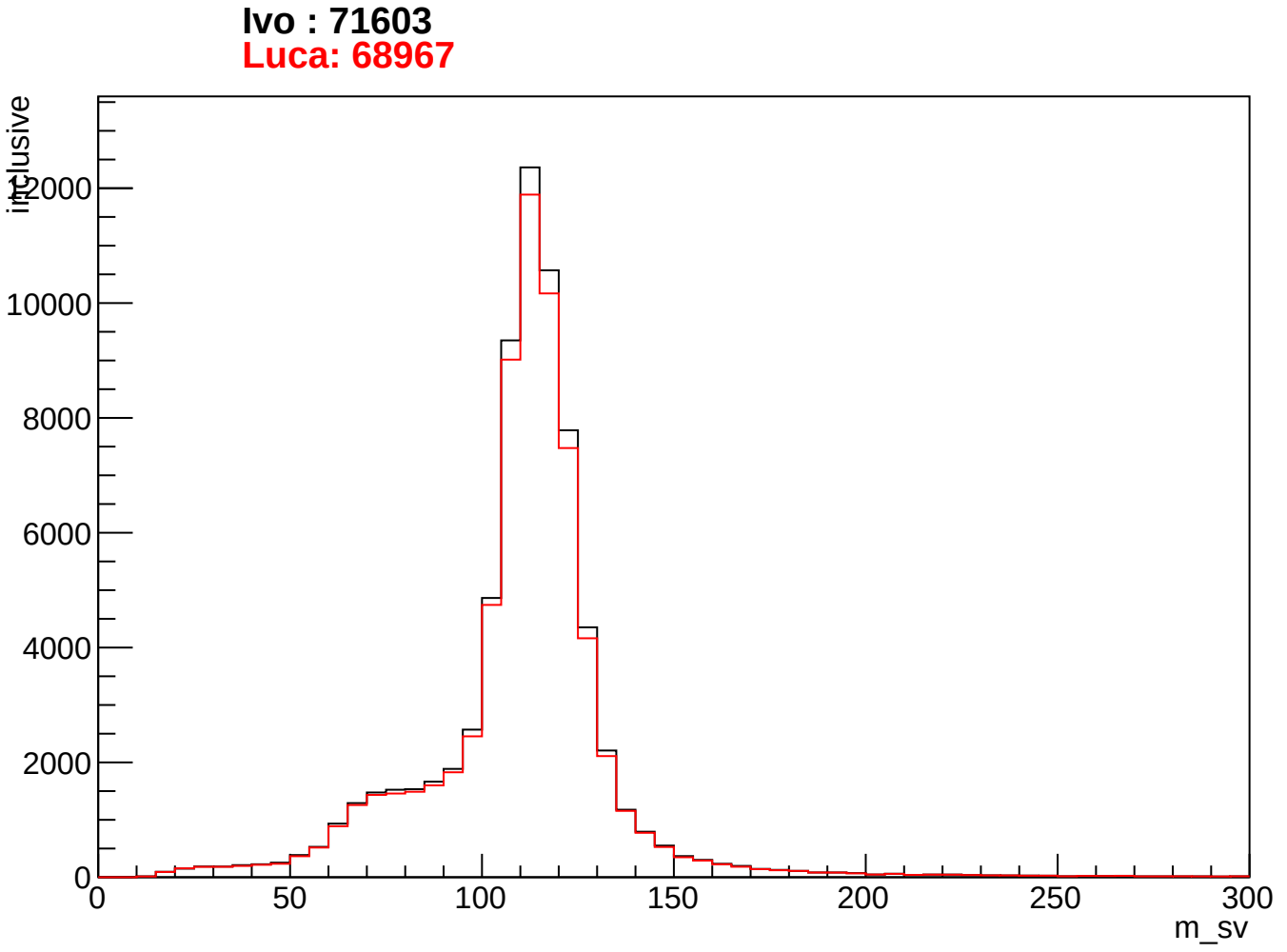

Ivo : 71603
Luca: 68967
inclusive
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
iso_1

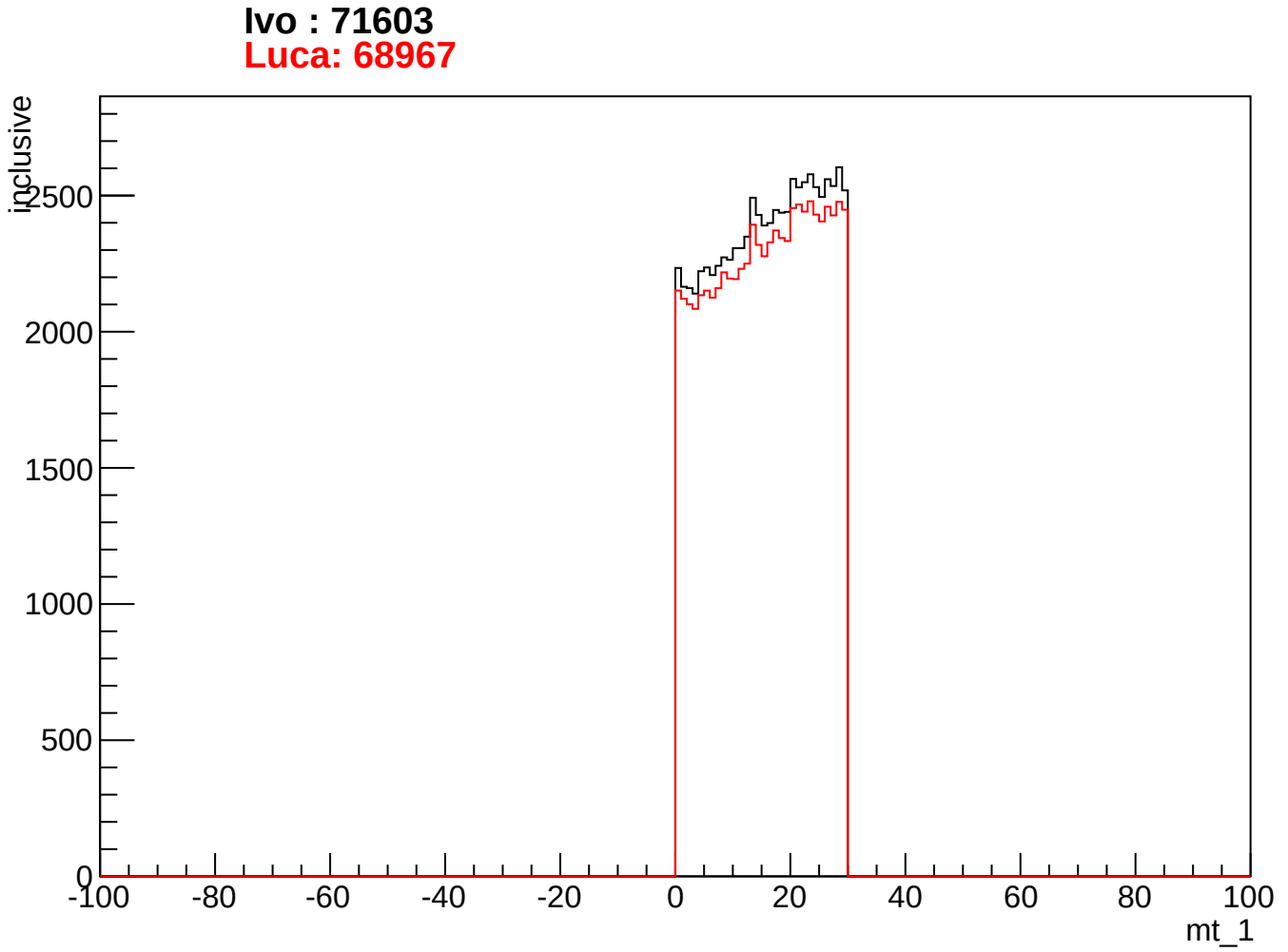

Ivo : 71603
Luca: 68967
inclusive
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
pt_2

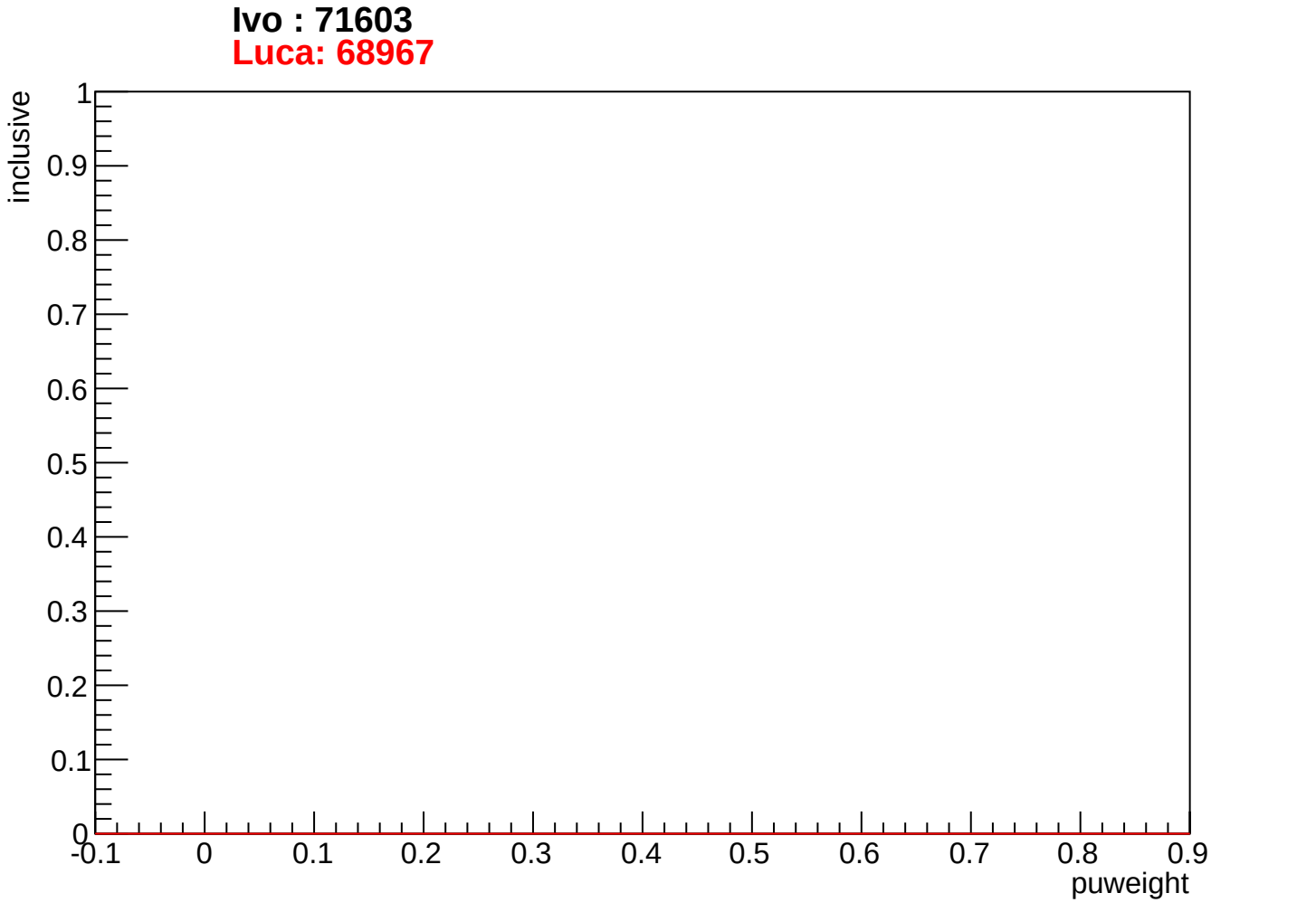

Ivo : 71603
Luca: 68967
inclusive
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-3
-2
-1
0
1
2
3
eta_2

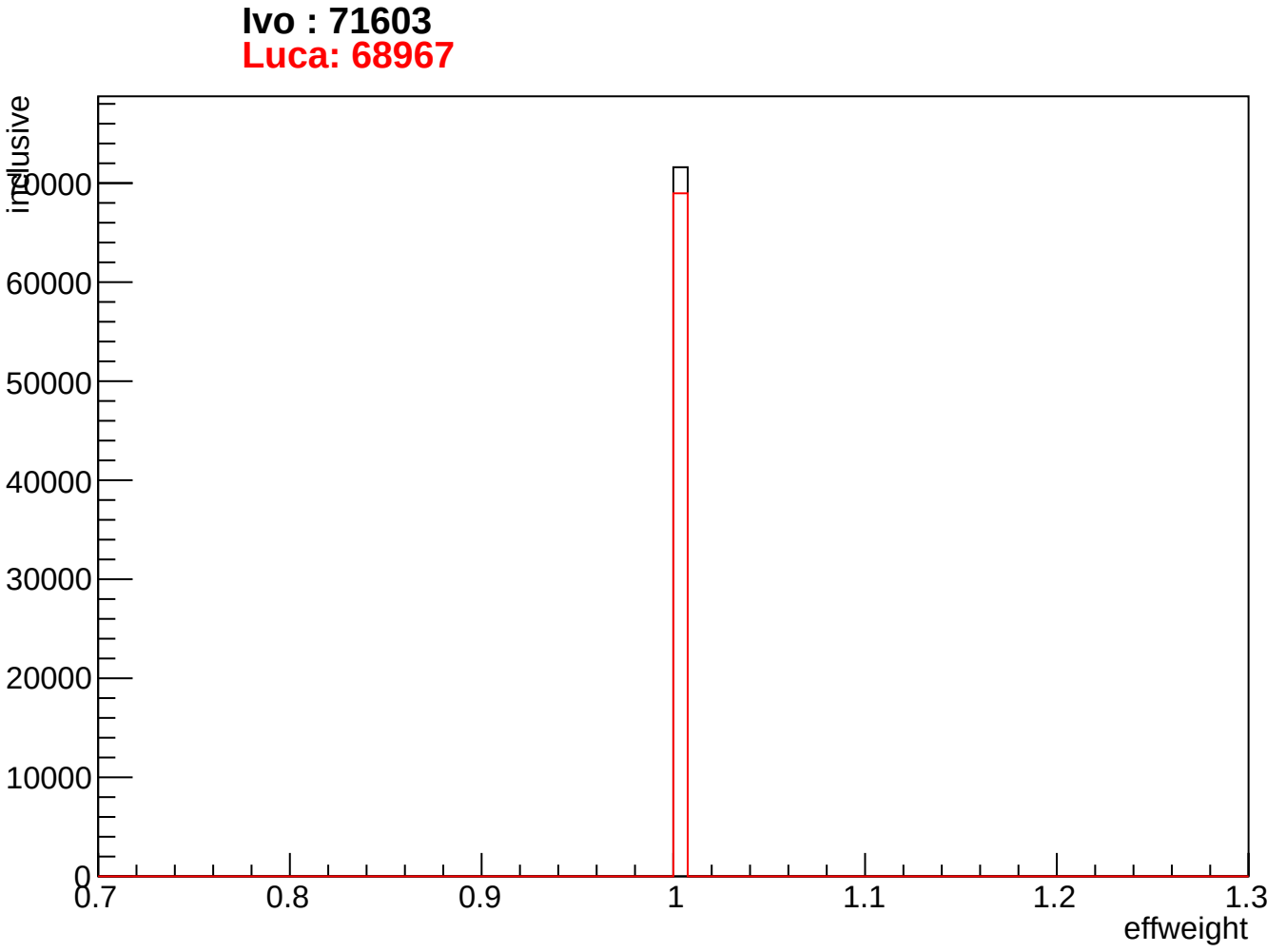

Ivo : 71603
Luca: 68967
inclusive
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60
70
80
90
100
mvamet

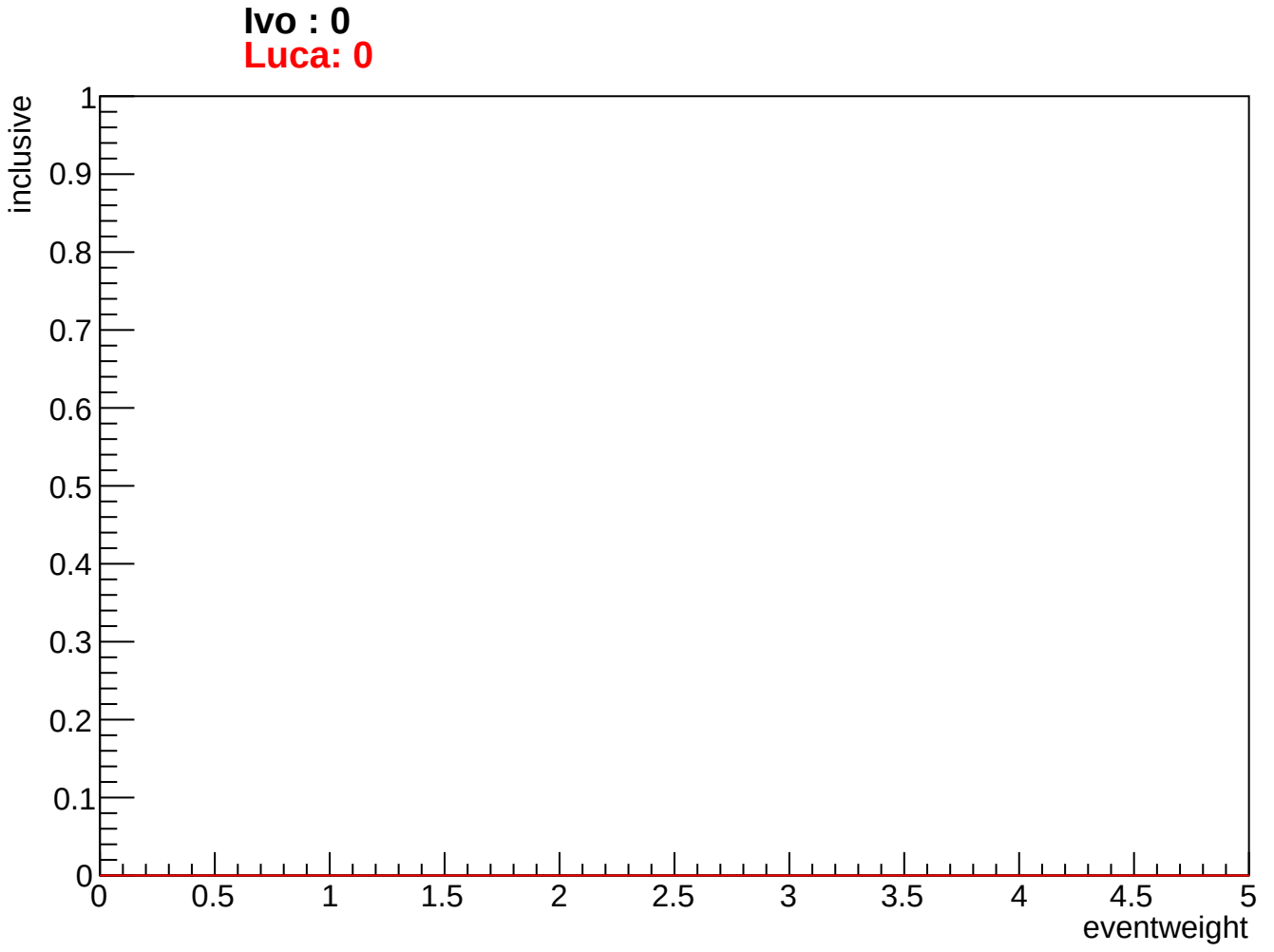

Ivo : 71603
Luca: 68967
inclusive
2500
2000
1500
1000
500
0
-3
-2
-1
0
1
2
3
mvametphi

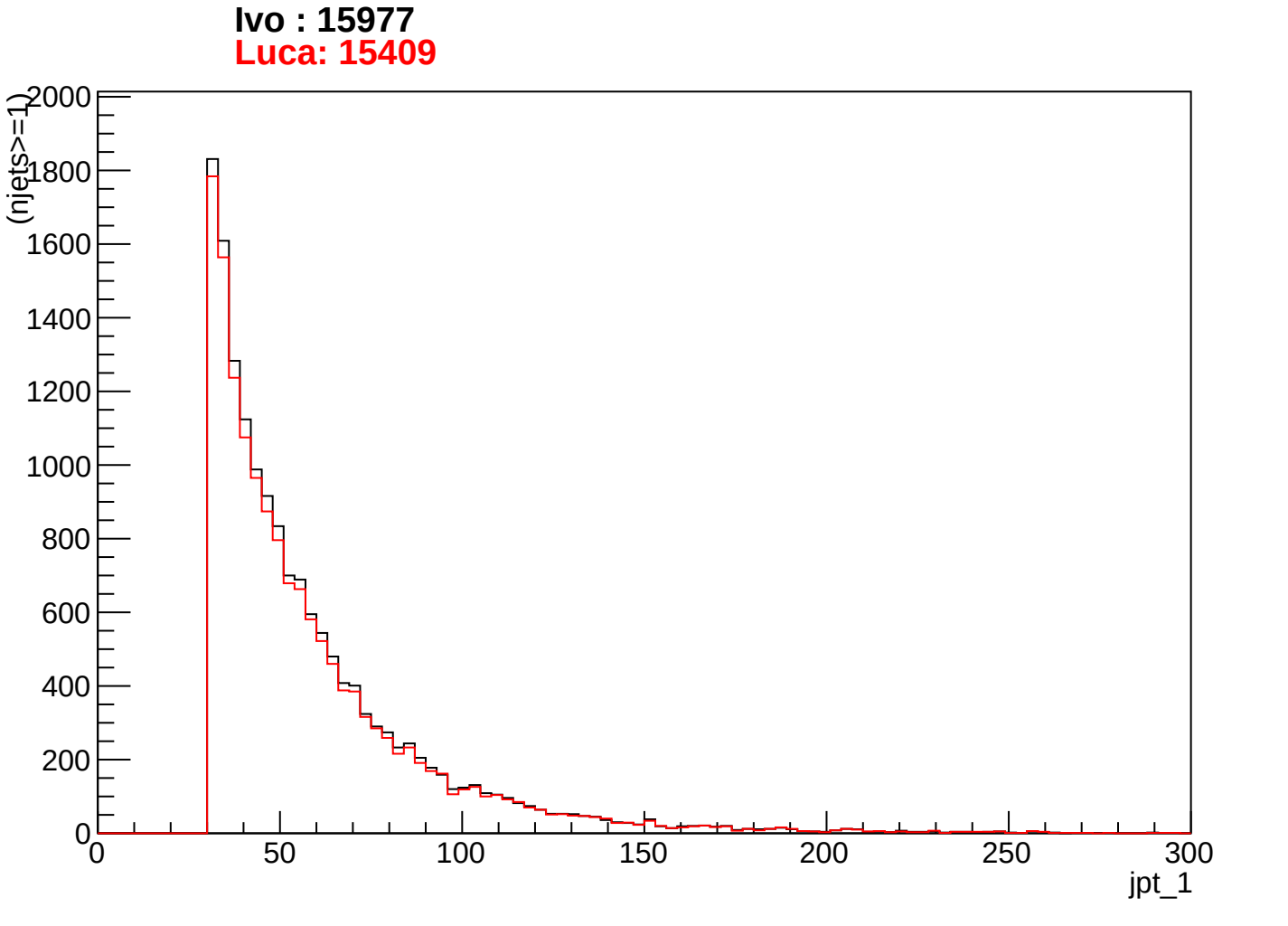

Ivo : 71603
Luca: 68967
inclusive
12000
10000
8000
6000
4000
2000
0
0
50
100
150
200
250
300
m_sv

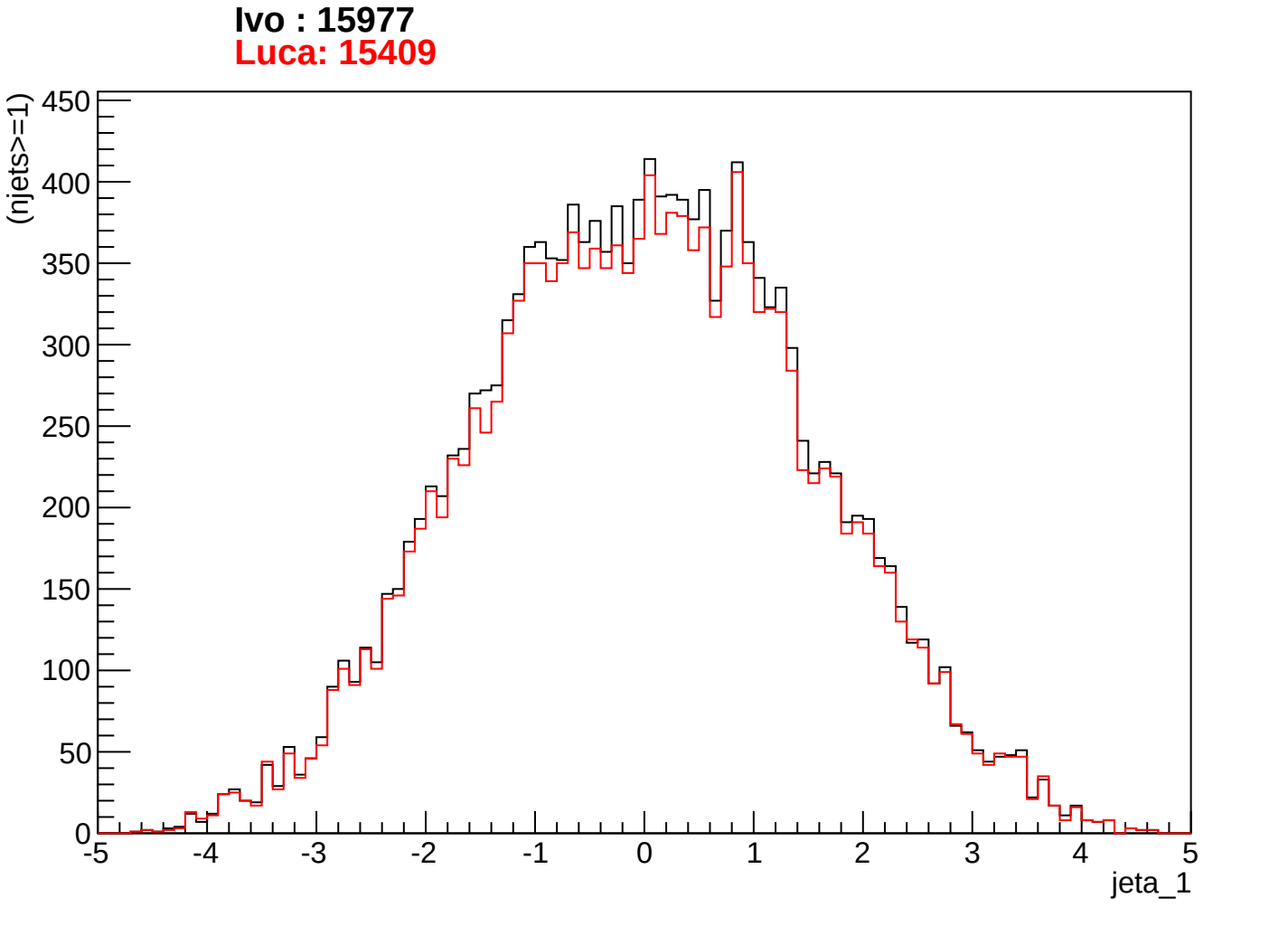

Ivo : 71603
Luca: 68967
inclusive
2500
2000
1500
1000
500
0
-100
-80
-60
-40
-20
0
20
40
60
80
100
mt_1

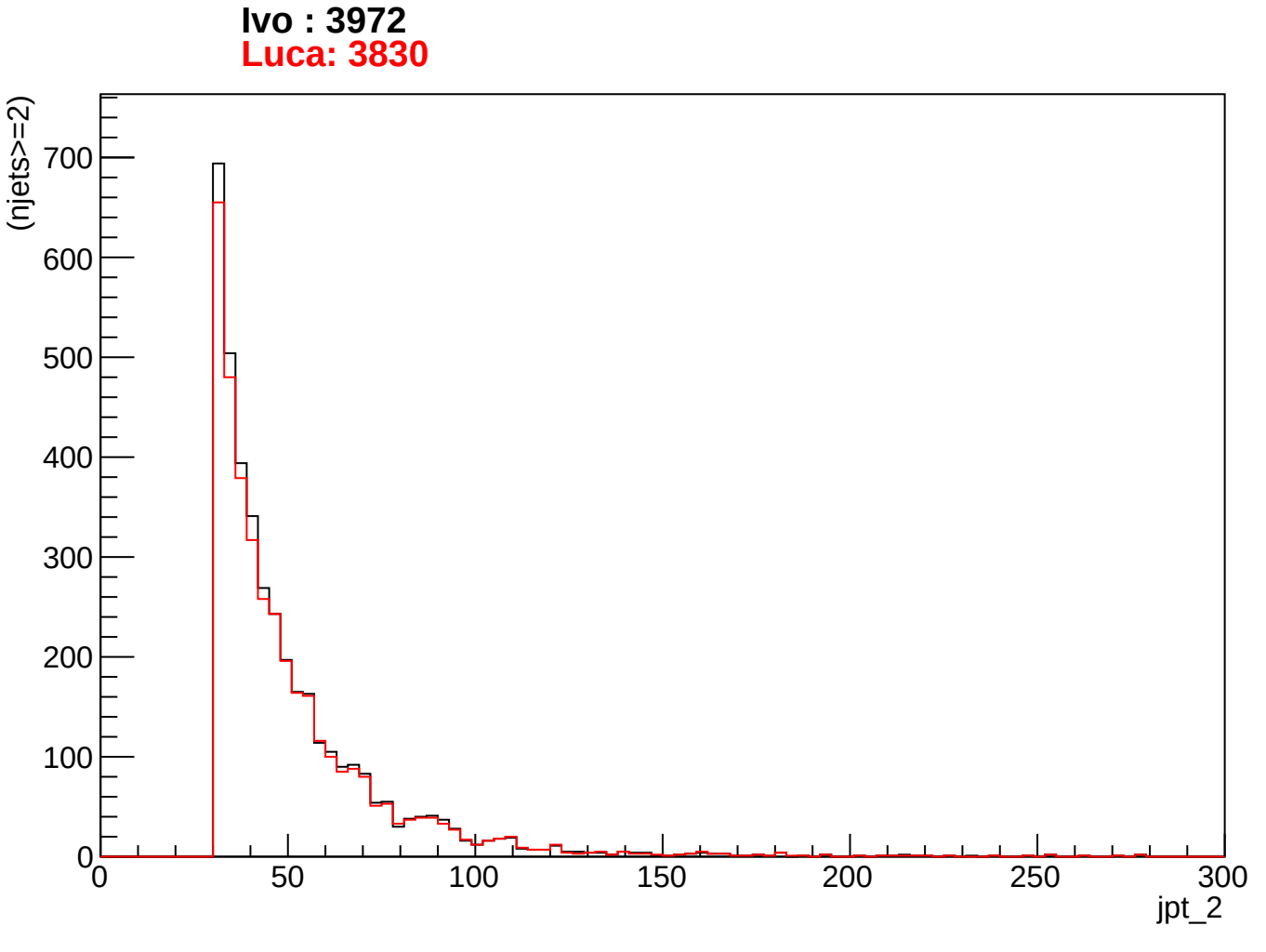

Ivo : 71603
Luca: 68967
inclusive
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
puweight

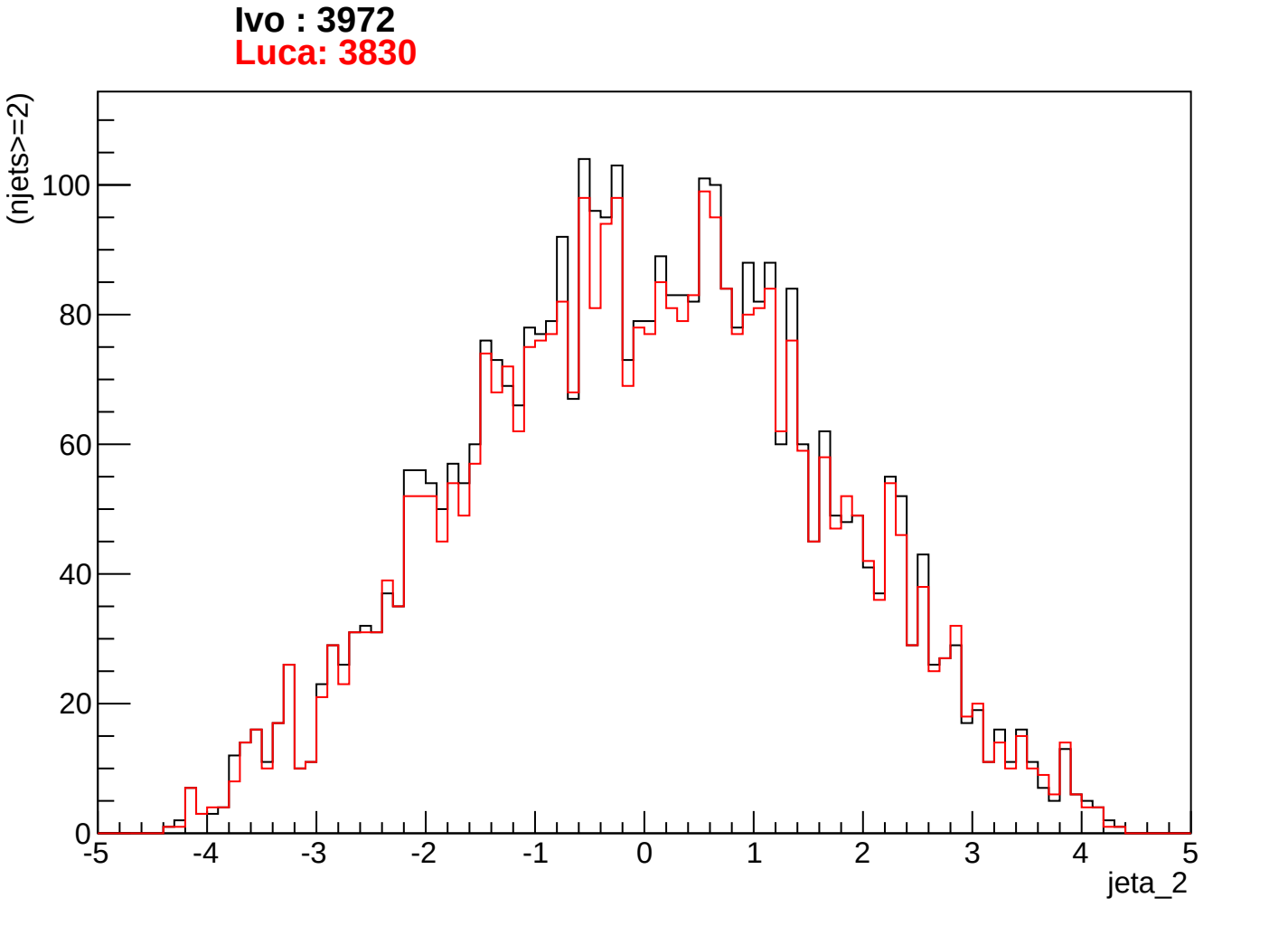

Ivo : 71603
Luca: 68967
inclusive
70000
60000
50000
40000
30000
20000
10000
0
0.7
0.8
0.9
1
1.1
1.2
1.3
effweight

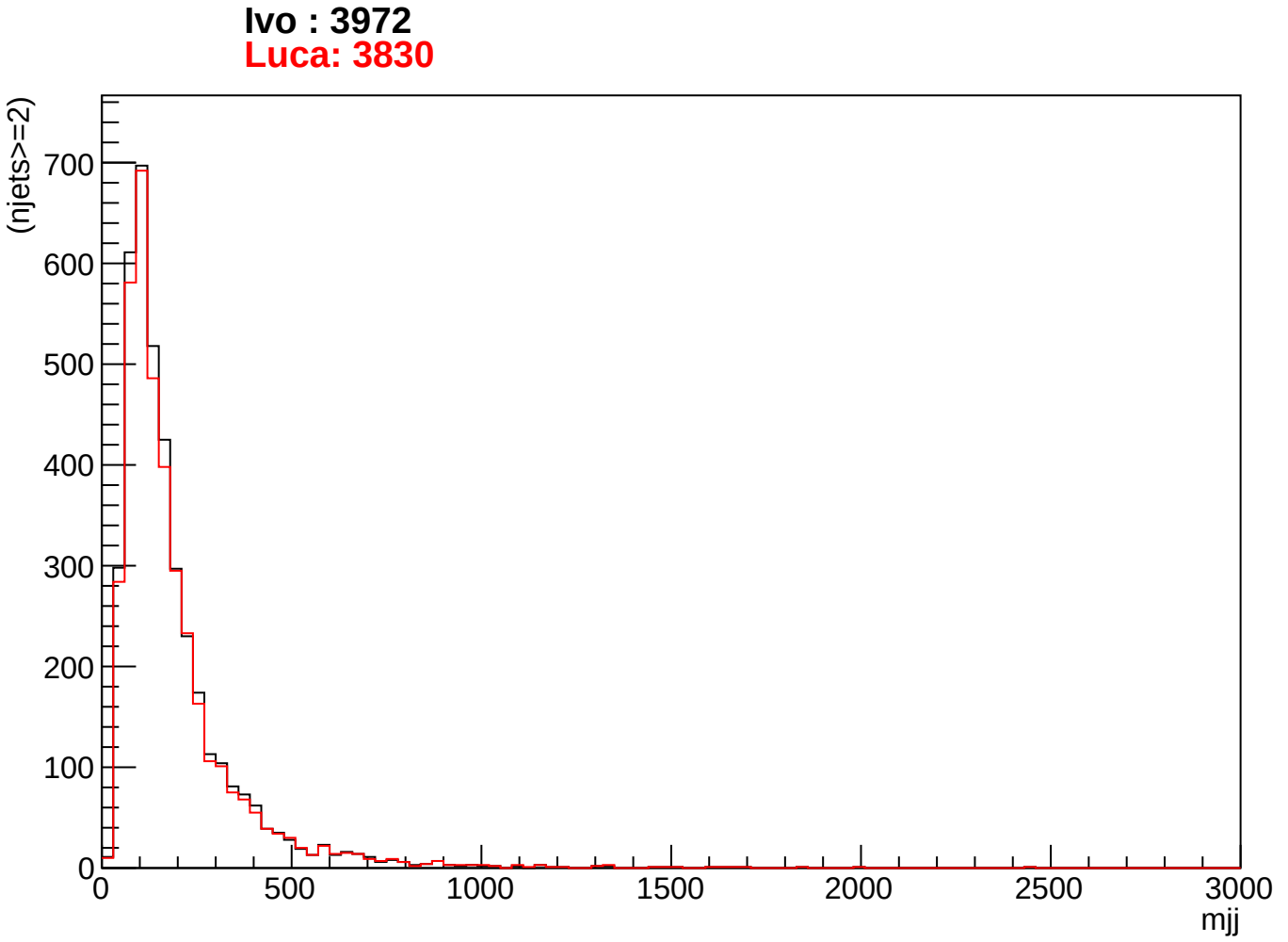

Ivo : 0
Luca: 0
inclusive
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
eventweight

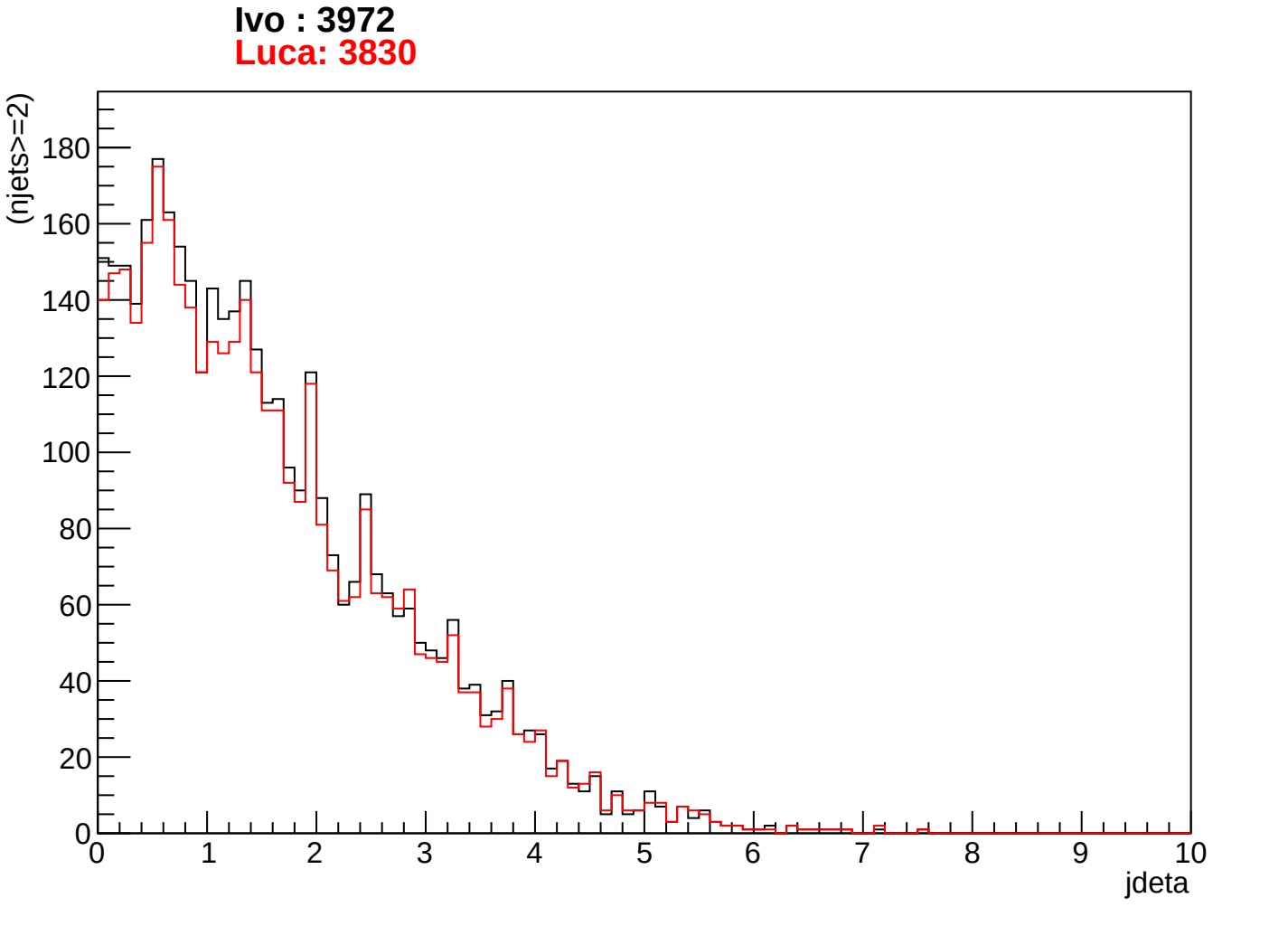

Ivo : 15977
Luca: 15409
(njets>=1)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
300
jpt_1

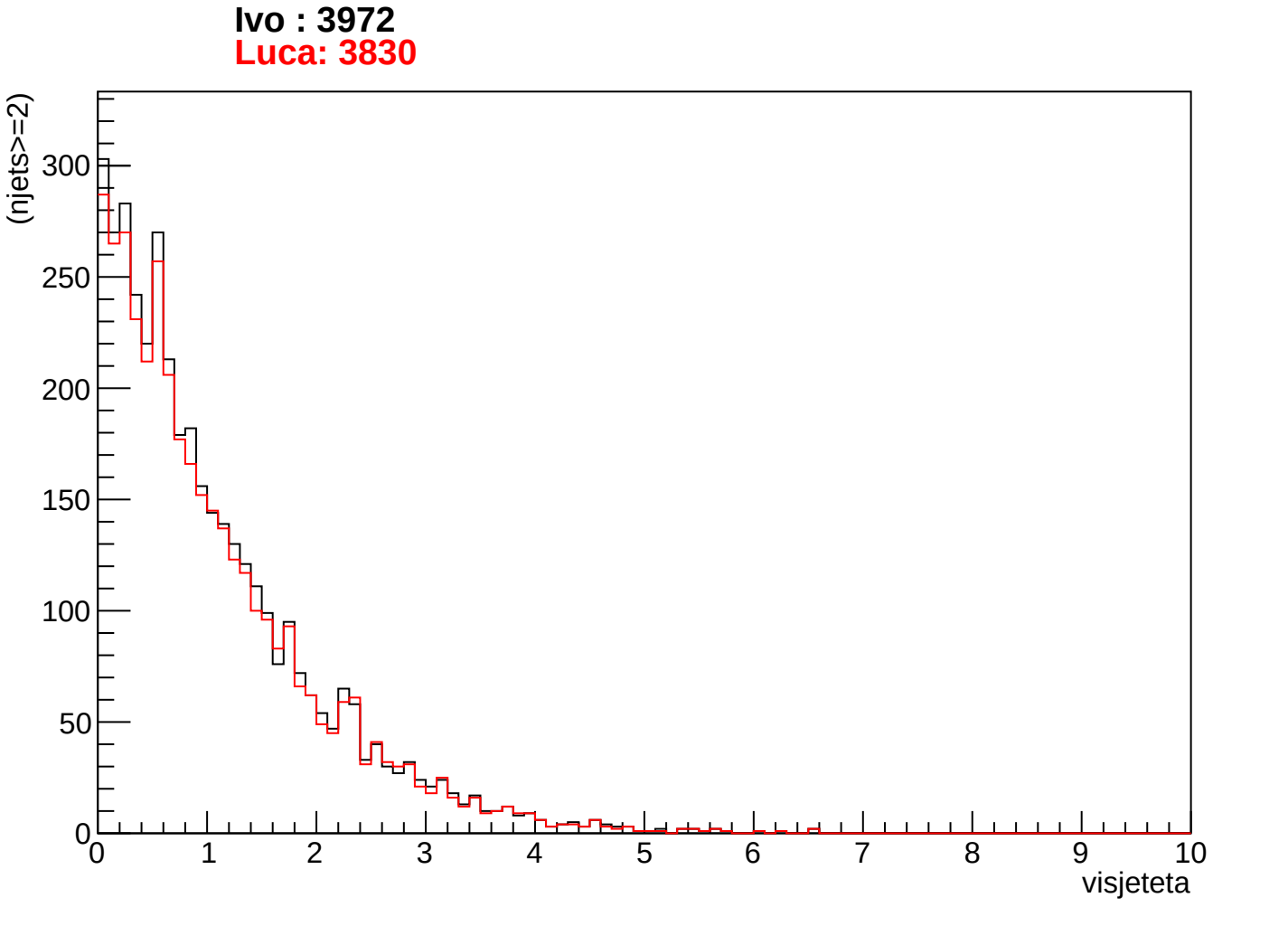

Ivo : 15977
Luca: 15409
(njets>=1)
450
400
350
300
250
200
150
100
50
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
jeta_1

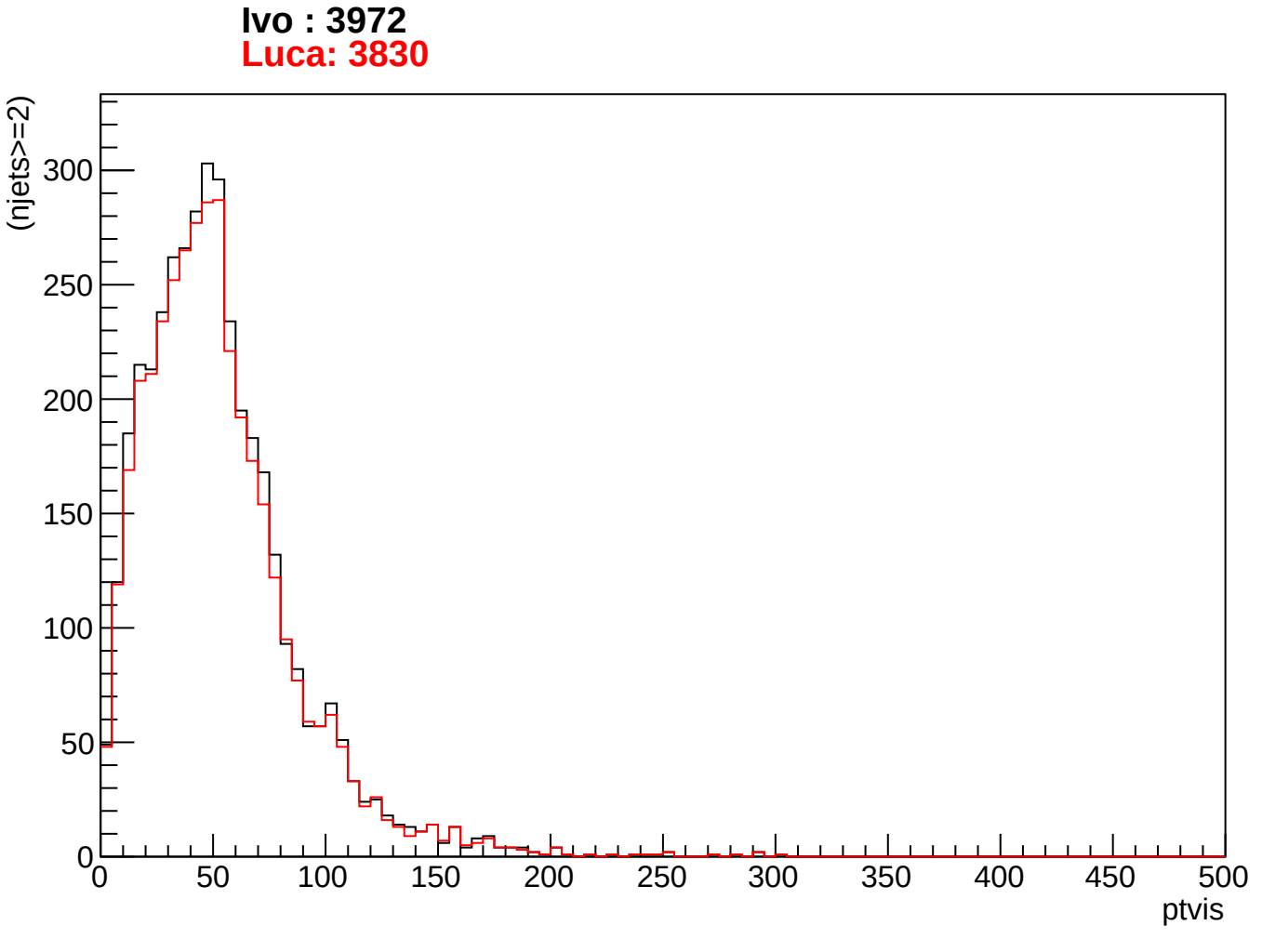

Ivo : 3972
Luca: 3830
(njets>=2)
0
100
200
300
400
500
600
700
0
50
100
150
200
250
300
jpt_2

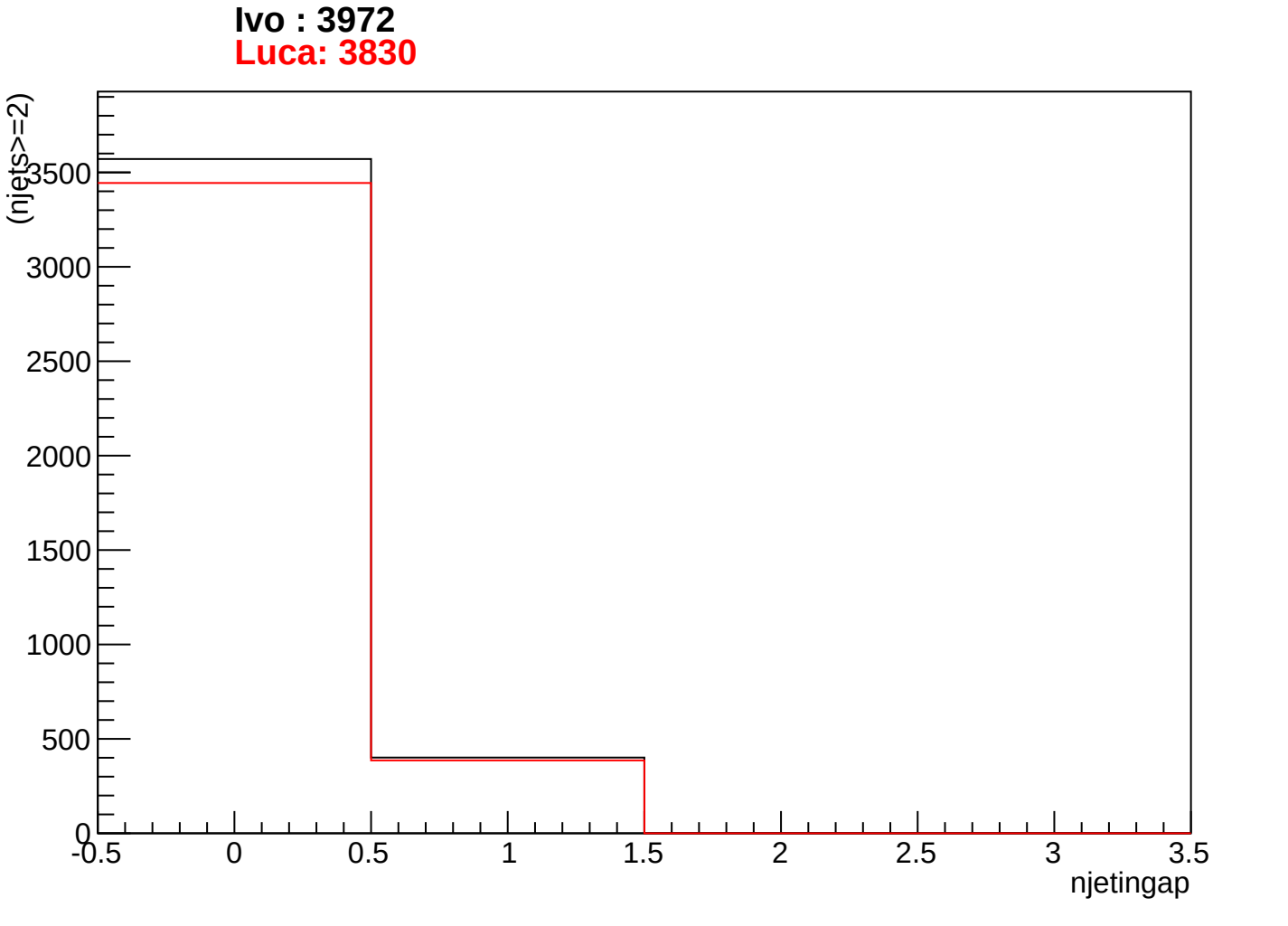

Ivo : 3972
Luca: 3830
(njets>=2)
0
20
40
60
80
100
-5
-4
-3
-2
-1
0
1
2
3
4
5
jeta_2

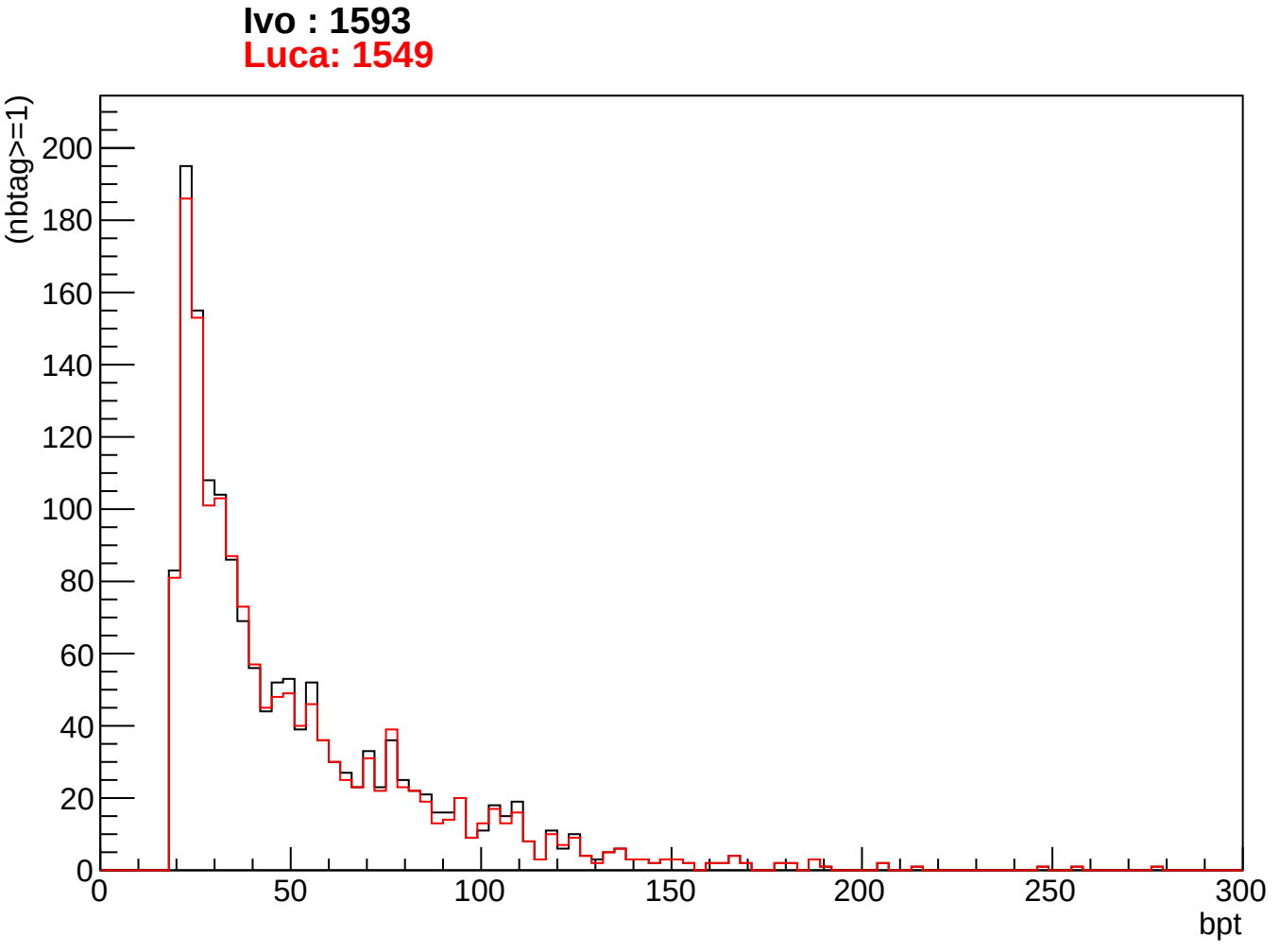

Ivo : 3972
Luca: 3830
(njets>=2)
0
100
200
300
400
500
600
700
0
500
1000
1500
2000
2500
3000
mjj

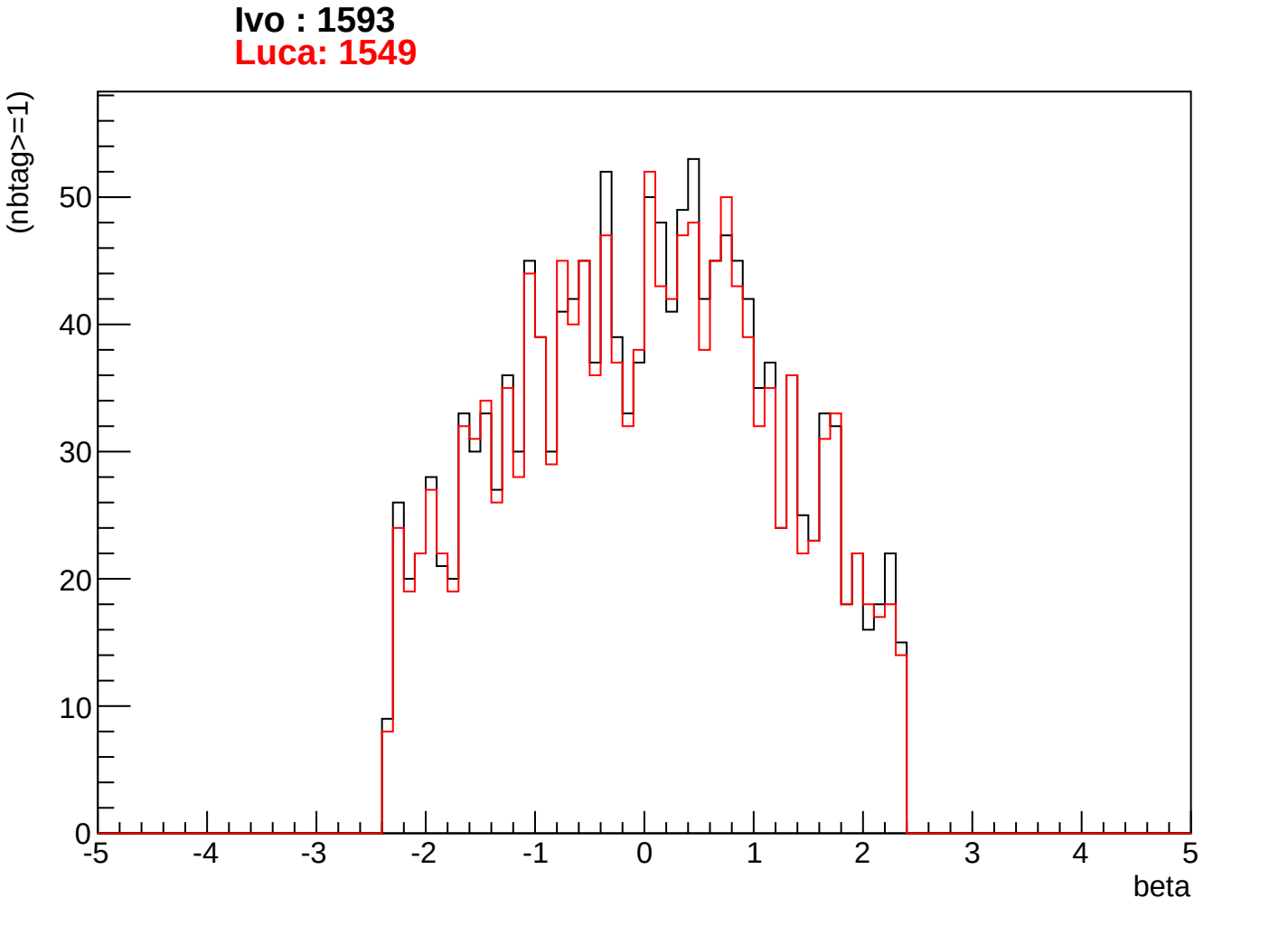

Ivo : 3972
Luca: 3830
(njets>=2)
0
20
40
60
80
100
120
140
160
180
0
1
2
3
4
5
6
7
8
9
10
jdeta

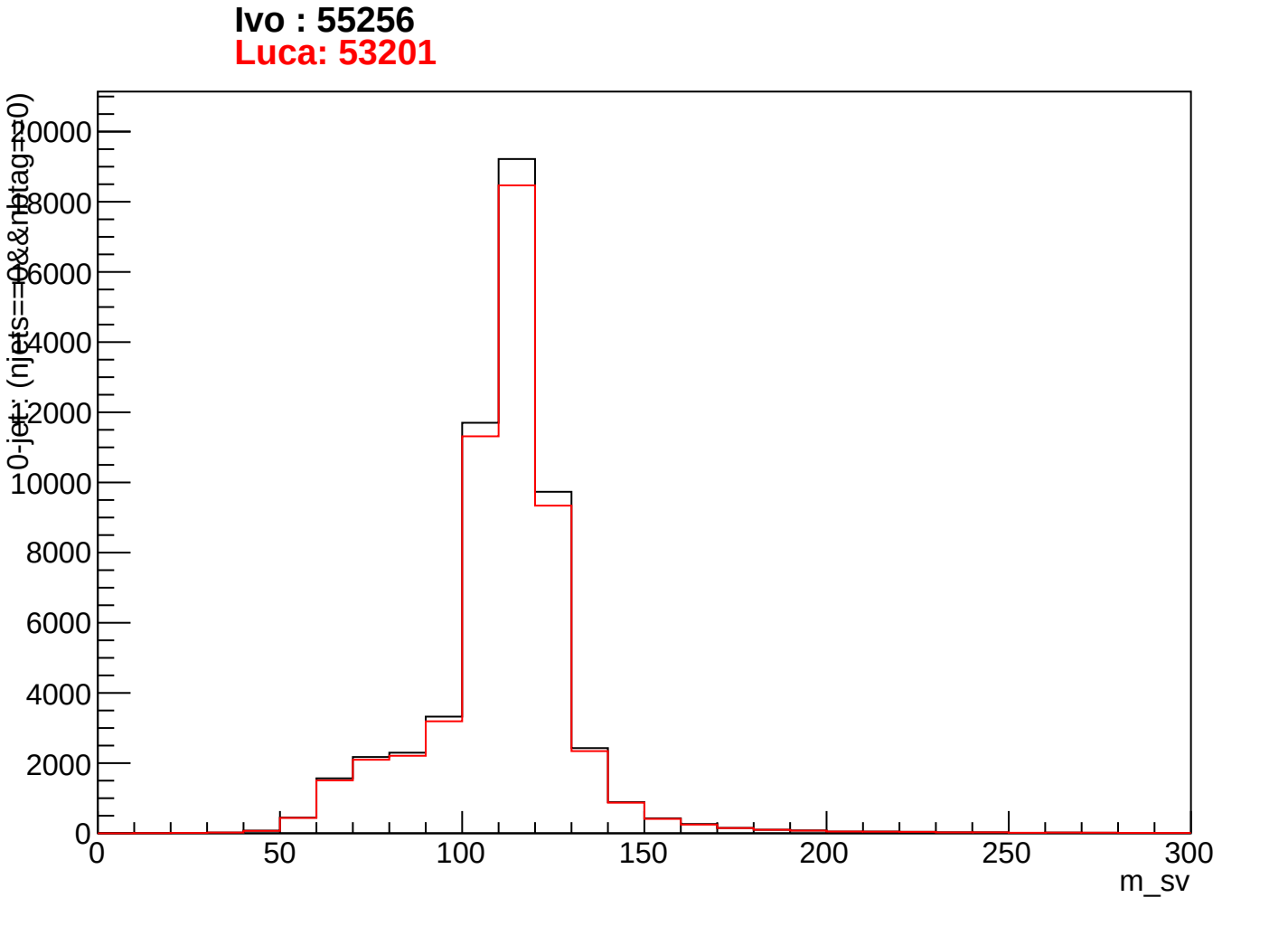

Ivo : 3972
Luca: 3830
(njets>=2)
300
250
200
150
100
50
0
0
1
2
3
4
5
6
7
8
9
10
visjeteta

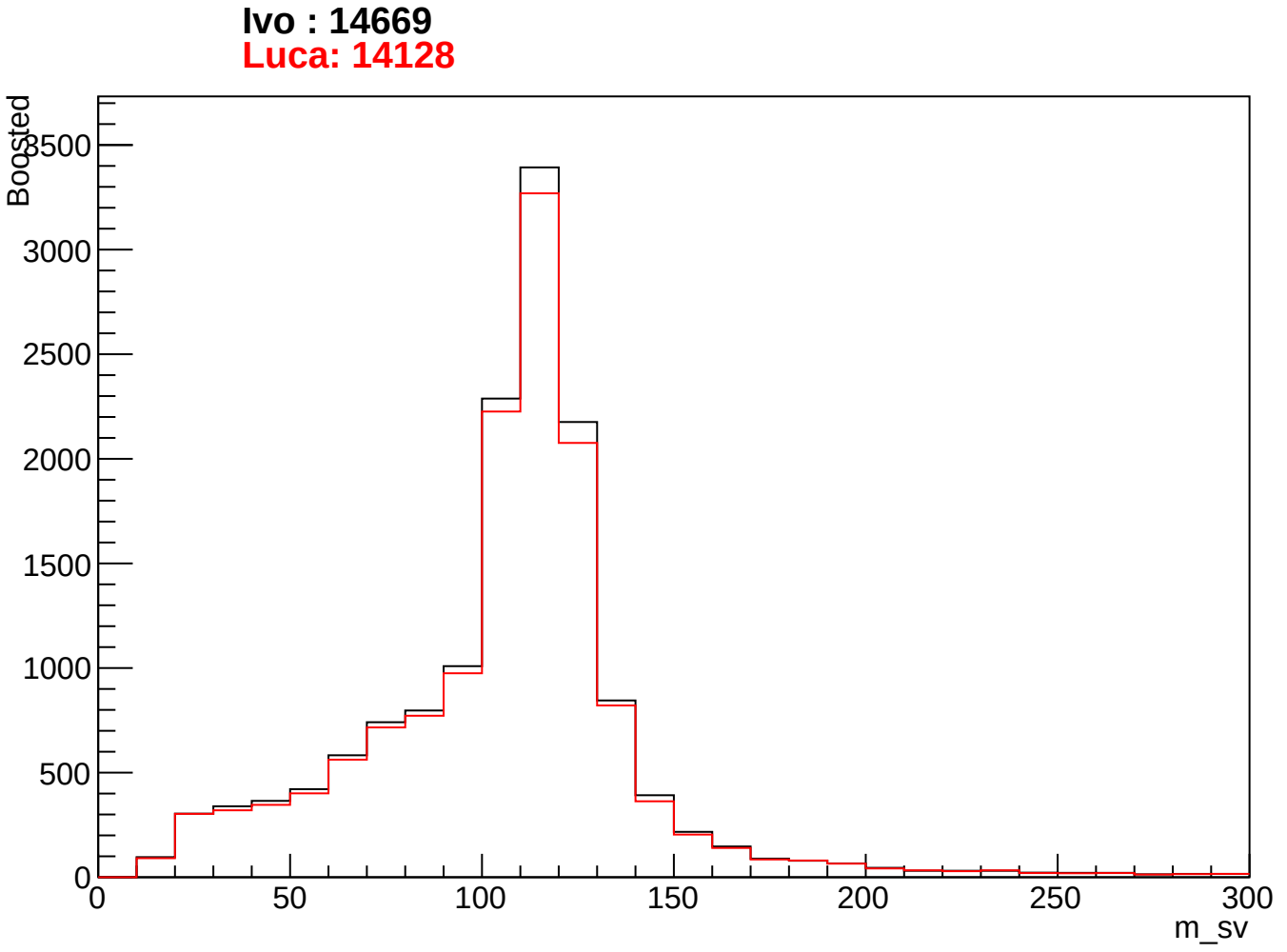

Ivo : 3972
Luca: 3830
(njets>=2)
0
50
100
150
200
250
300
0
50
100
150
200
250
300
350
400
450
500
ptvis

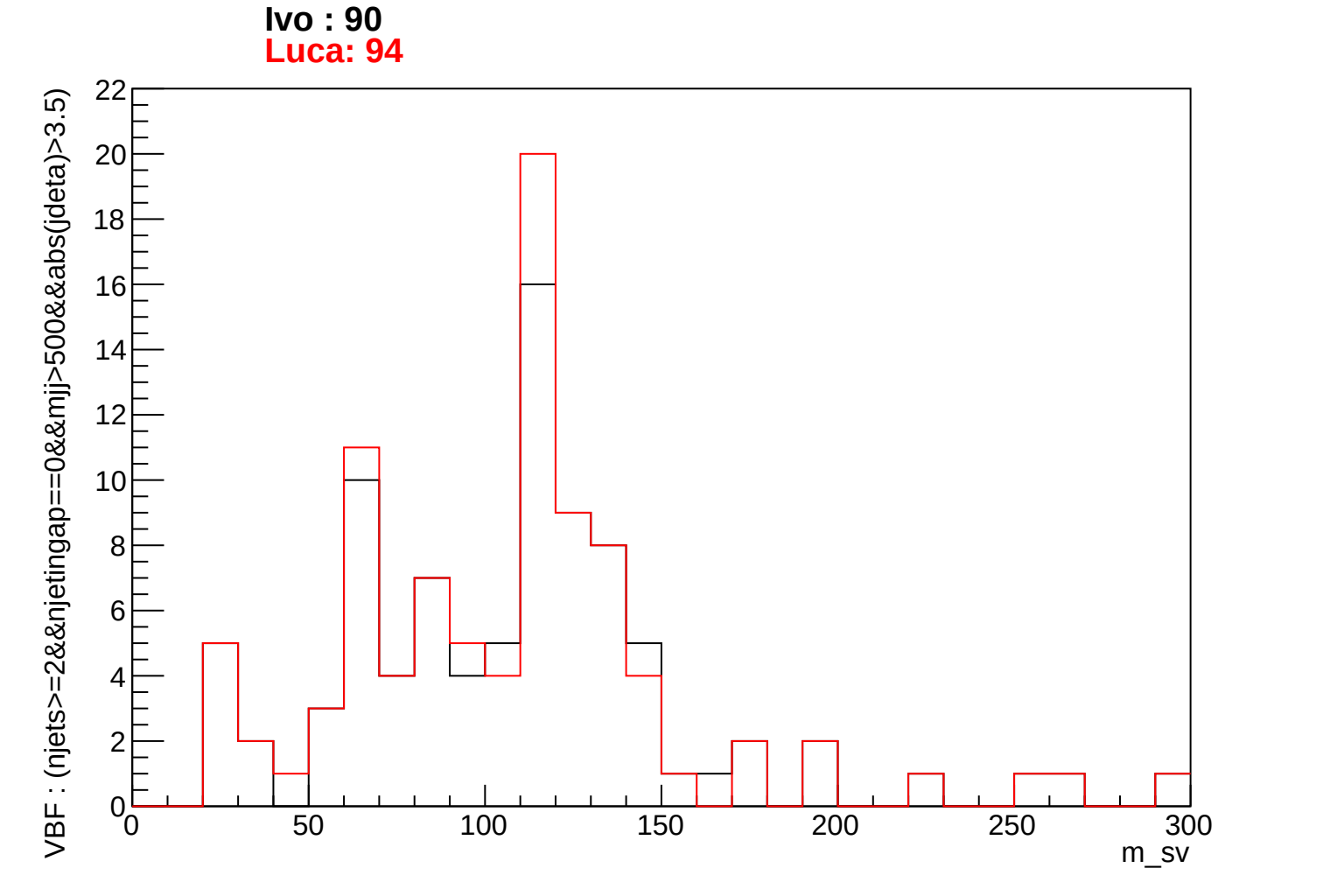

Ivo : 3972
Luca: 3830
(njets>=2)
3500
3000
2500
2000
1500
1000
500
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
njetingap

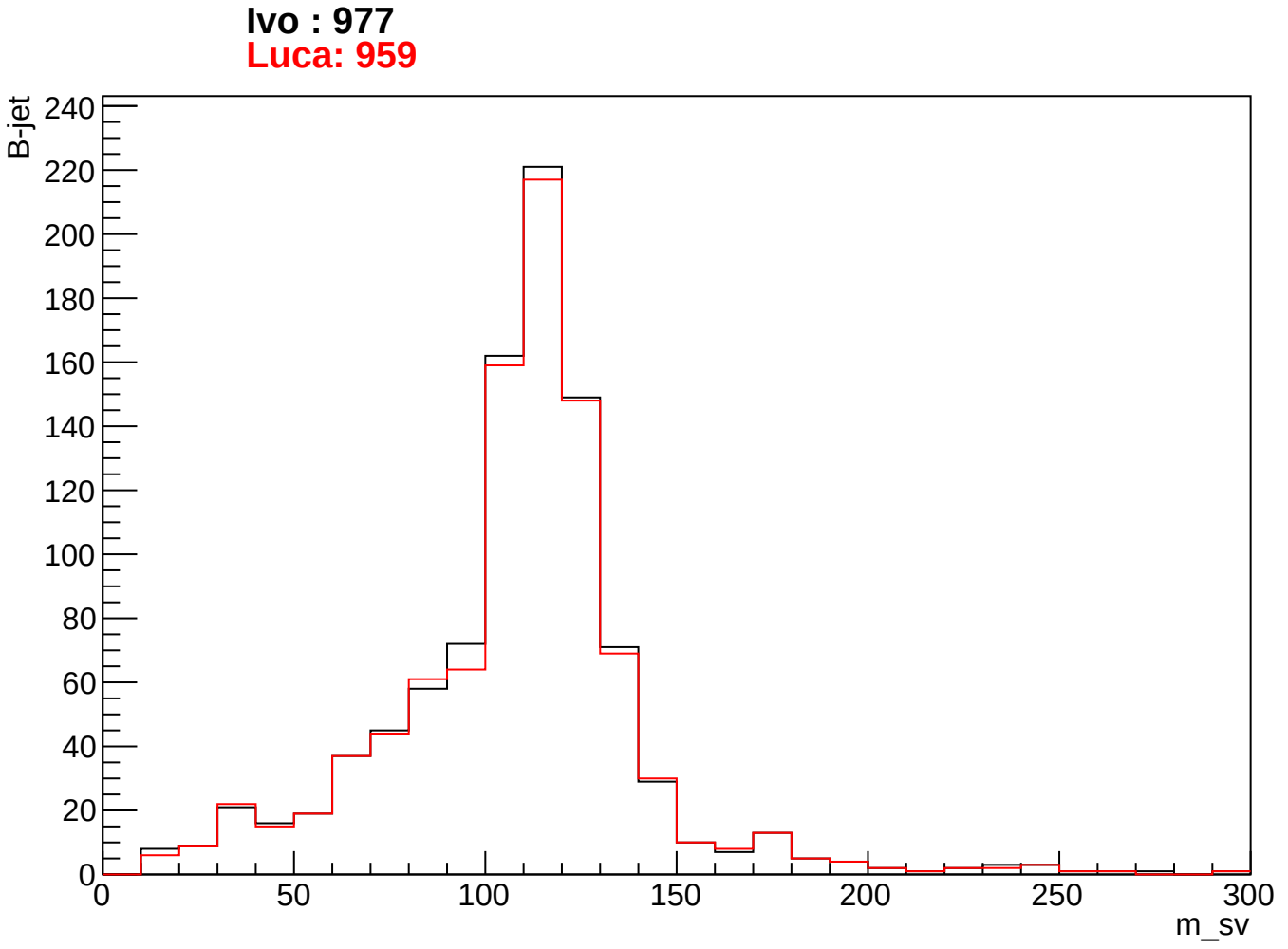

Ivo : 1593
Luca: 1549
(nbtag>=1)
0
20
40
60
80
100
120
140
160
180
200
0
50
100
150
200
250
300
bpt

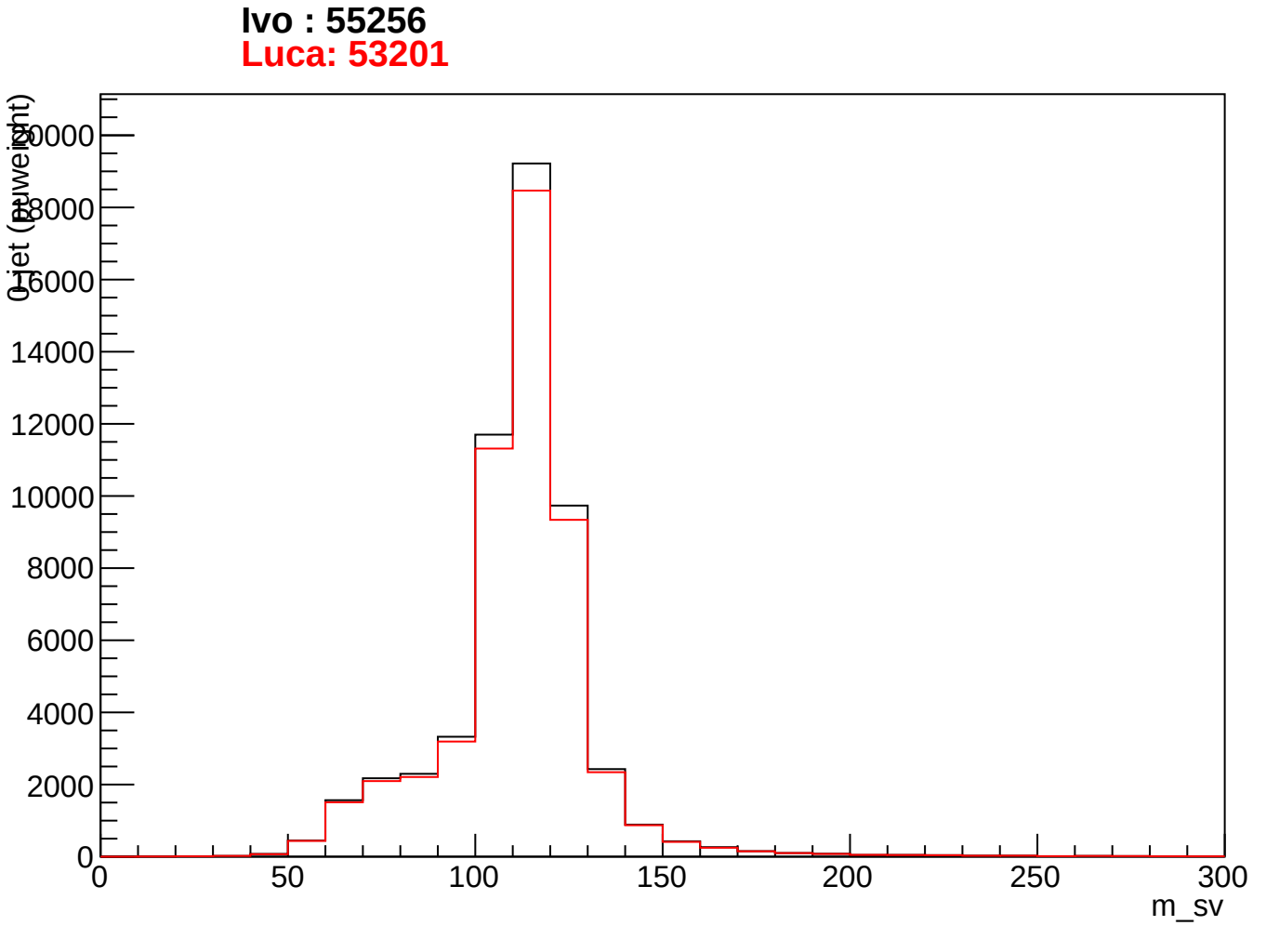

Ivo : 1593
Luca: 1549
(nbtag>=1)
50
40
30
20
10
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
beta


Ivo : 55256
Luca: 53201
0-jet: (njets==0&&nbtag==0)
m_sv
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
50
100
150
200
250
300

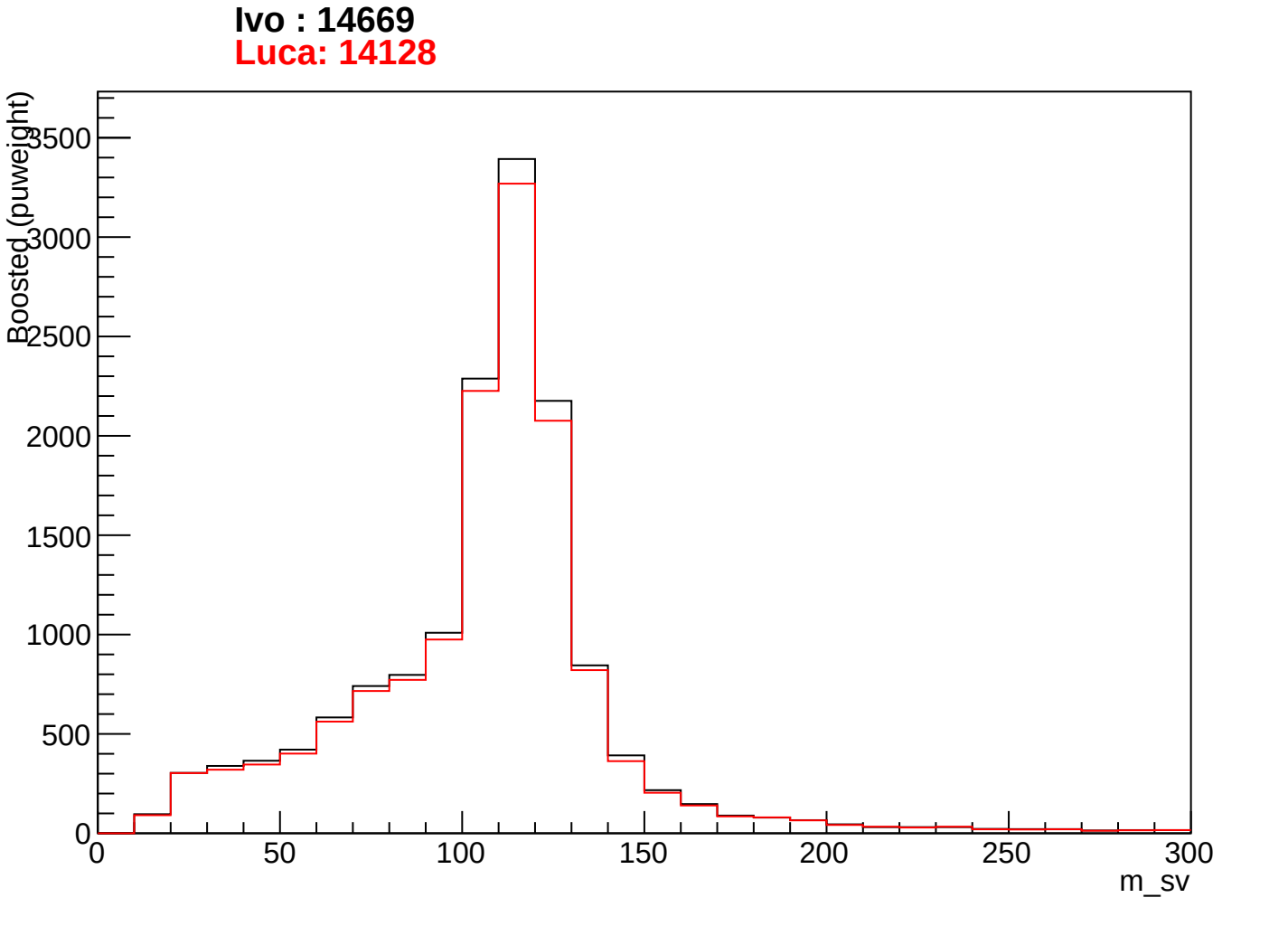

Ivo : 14669
Luca: 14128
Boosted
3500
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
m_sv

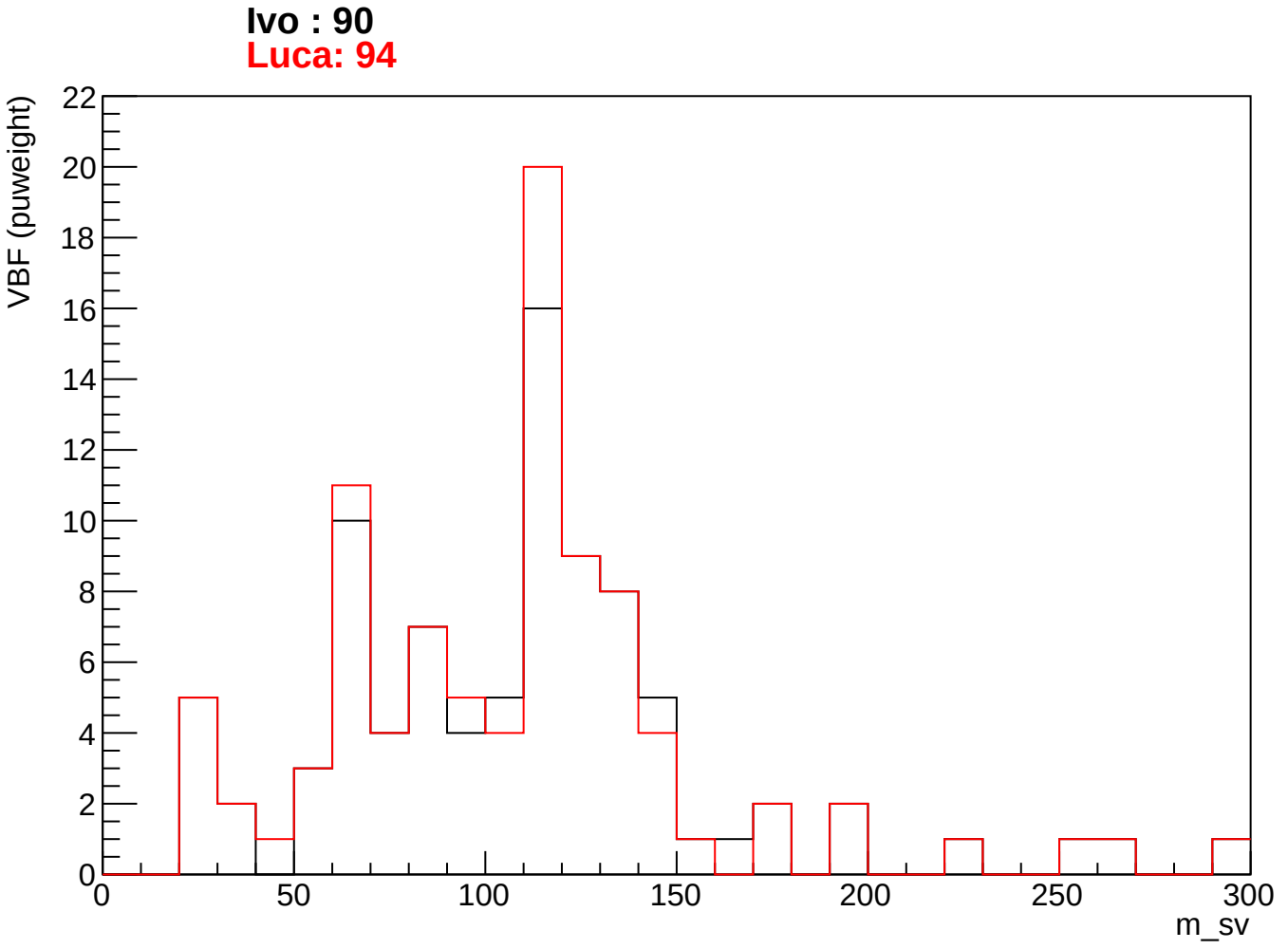

Ivo : 90
Luca: 94
VBF : (njets>=2&&njetingap==0&&mjj>500&&abs(jdeta)>3.5)
m_sv
0
2
4
6
8
10
12
14
16
18
20
22
0
50
100
150
200
250
300

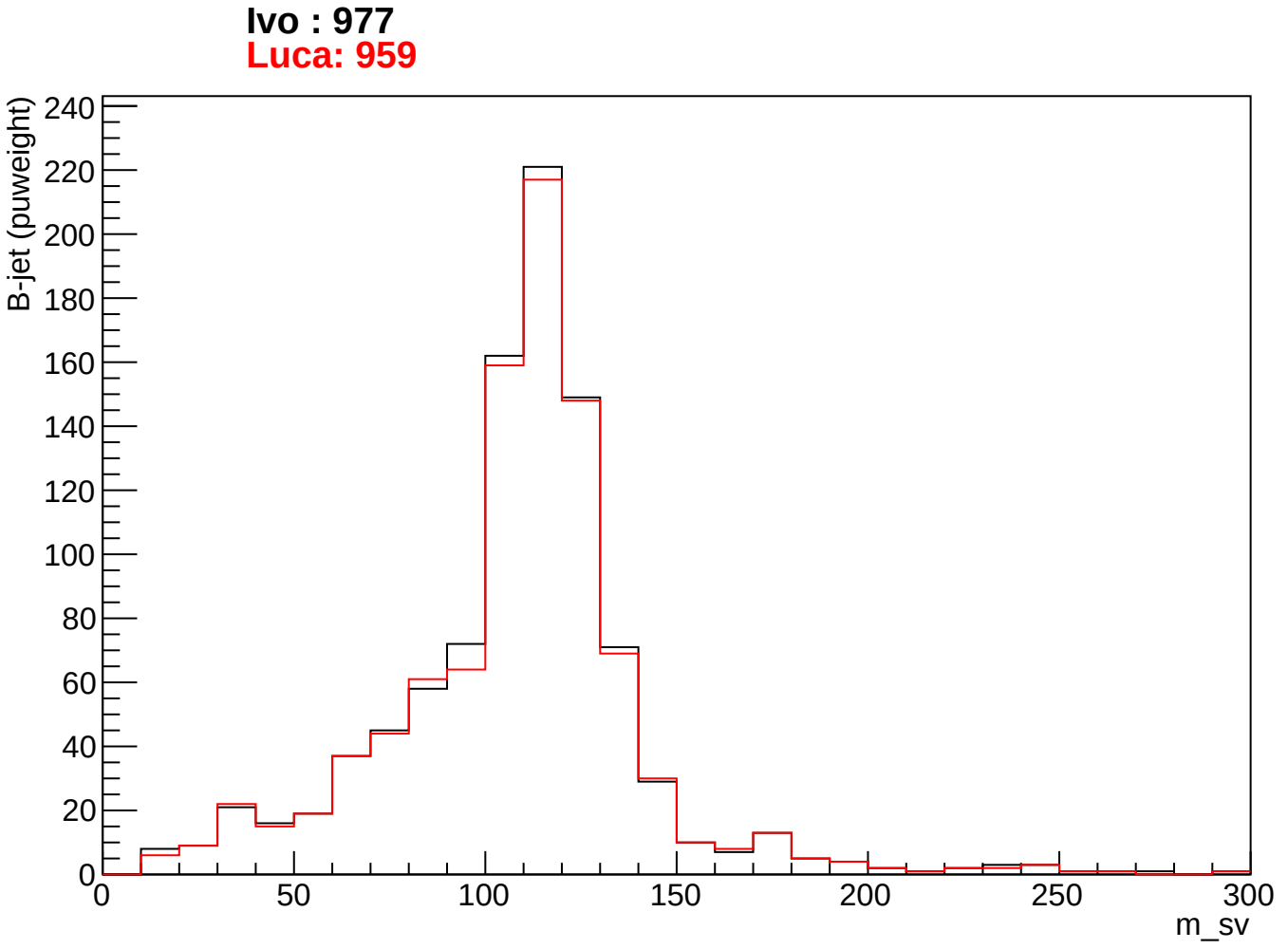

Ivo : 977
Luca: 959
B-jet
240
220
200
180
160
140
120
100
80
60
40
20
0
0
50
100
150
200
250
300
m_sv

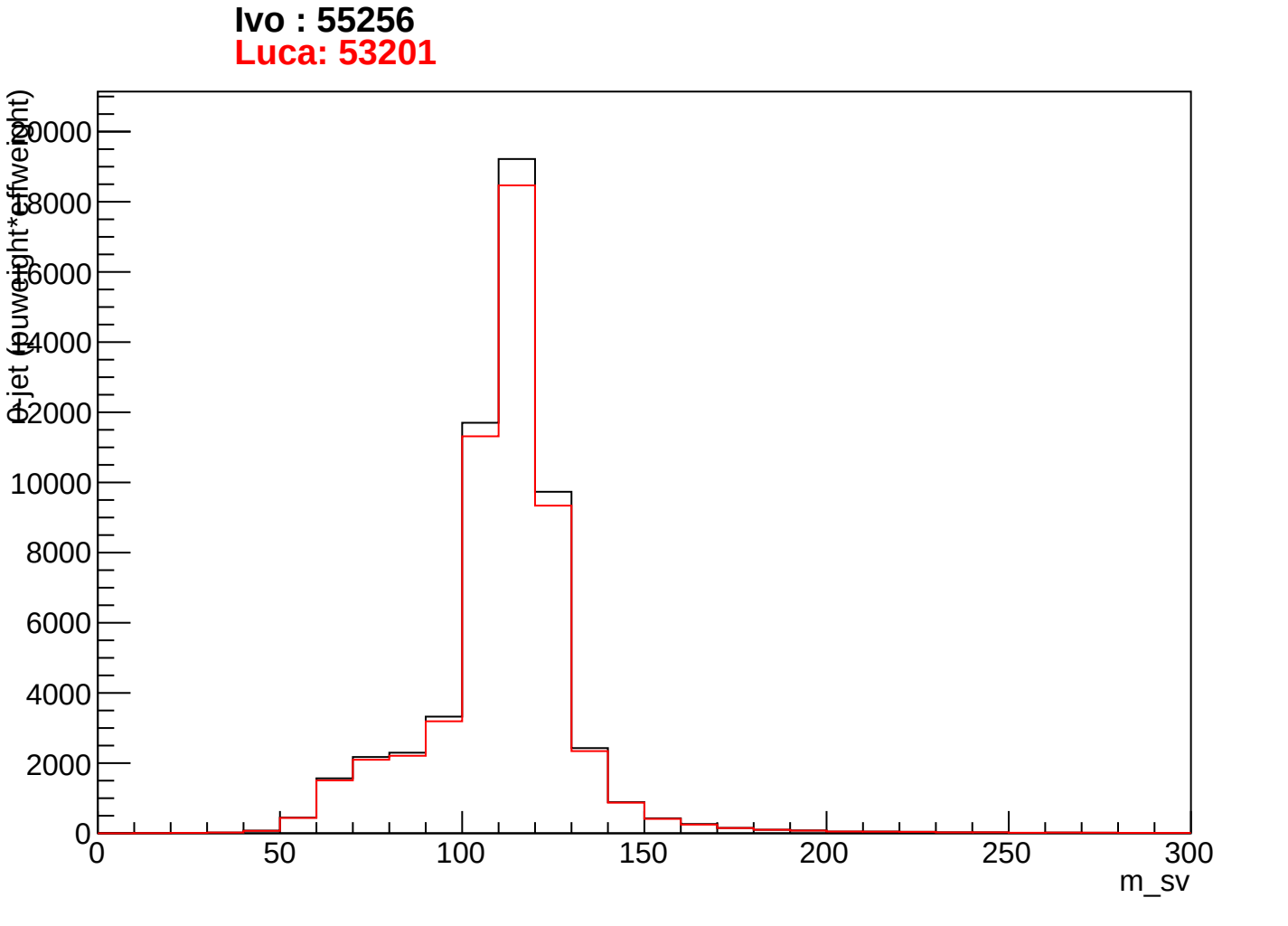


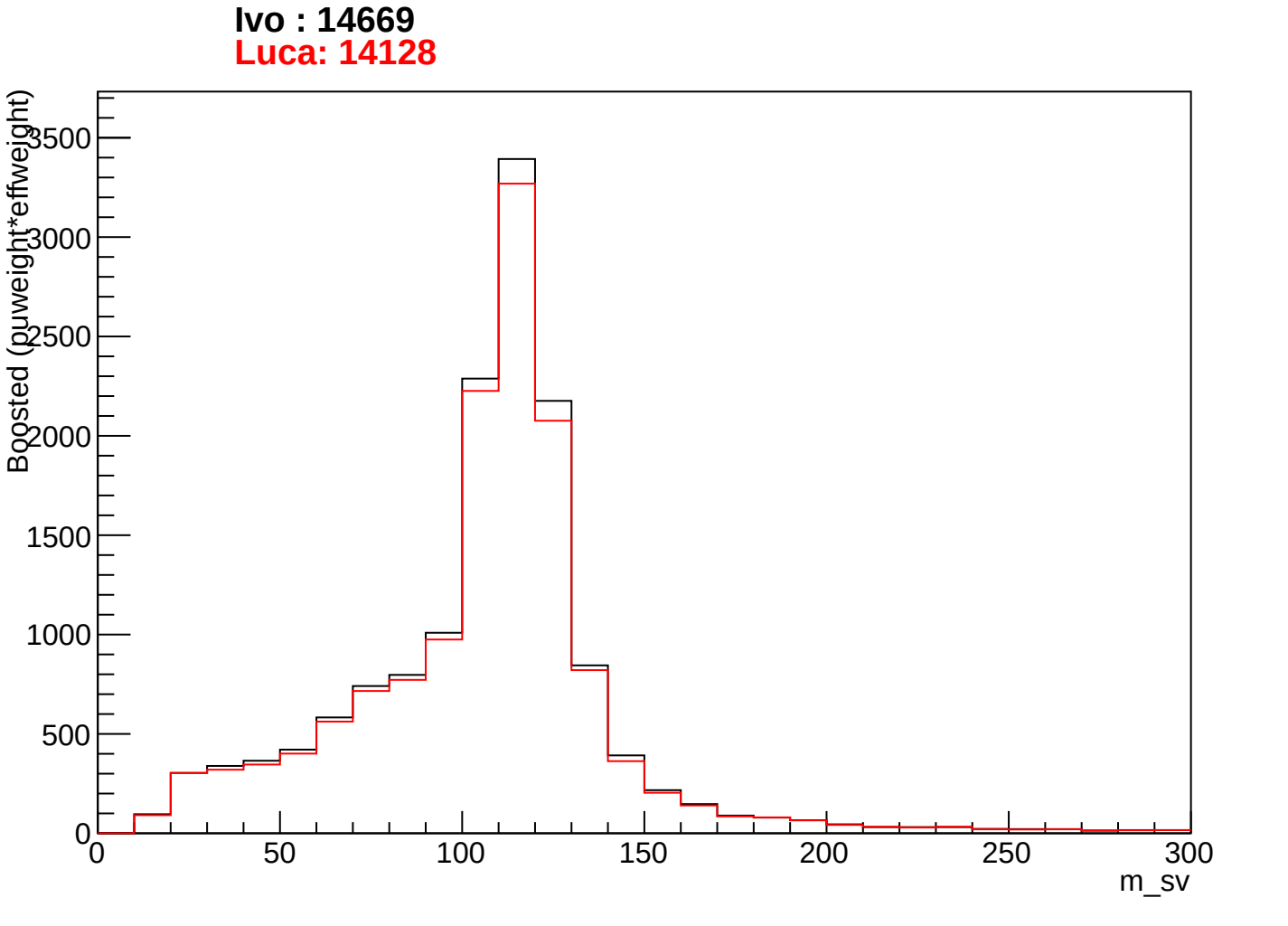
Ivo : 55256
Luca: 53201
0-jet (puweight)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
50
100
150
200
250
300
m_sv

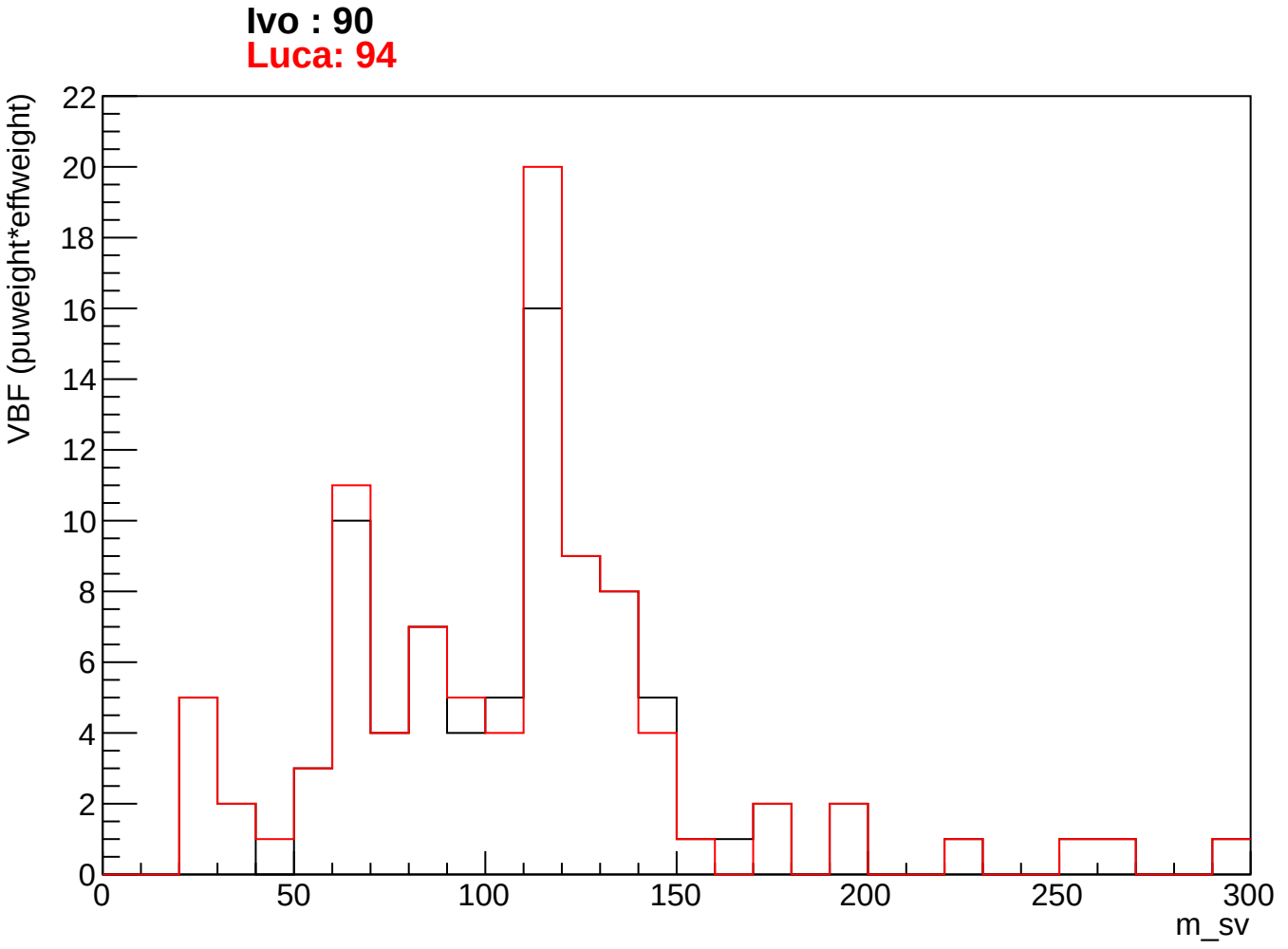

Ivo : 14669
Luca: 14128
Boosted (puweight)
3500
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
m_sv

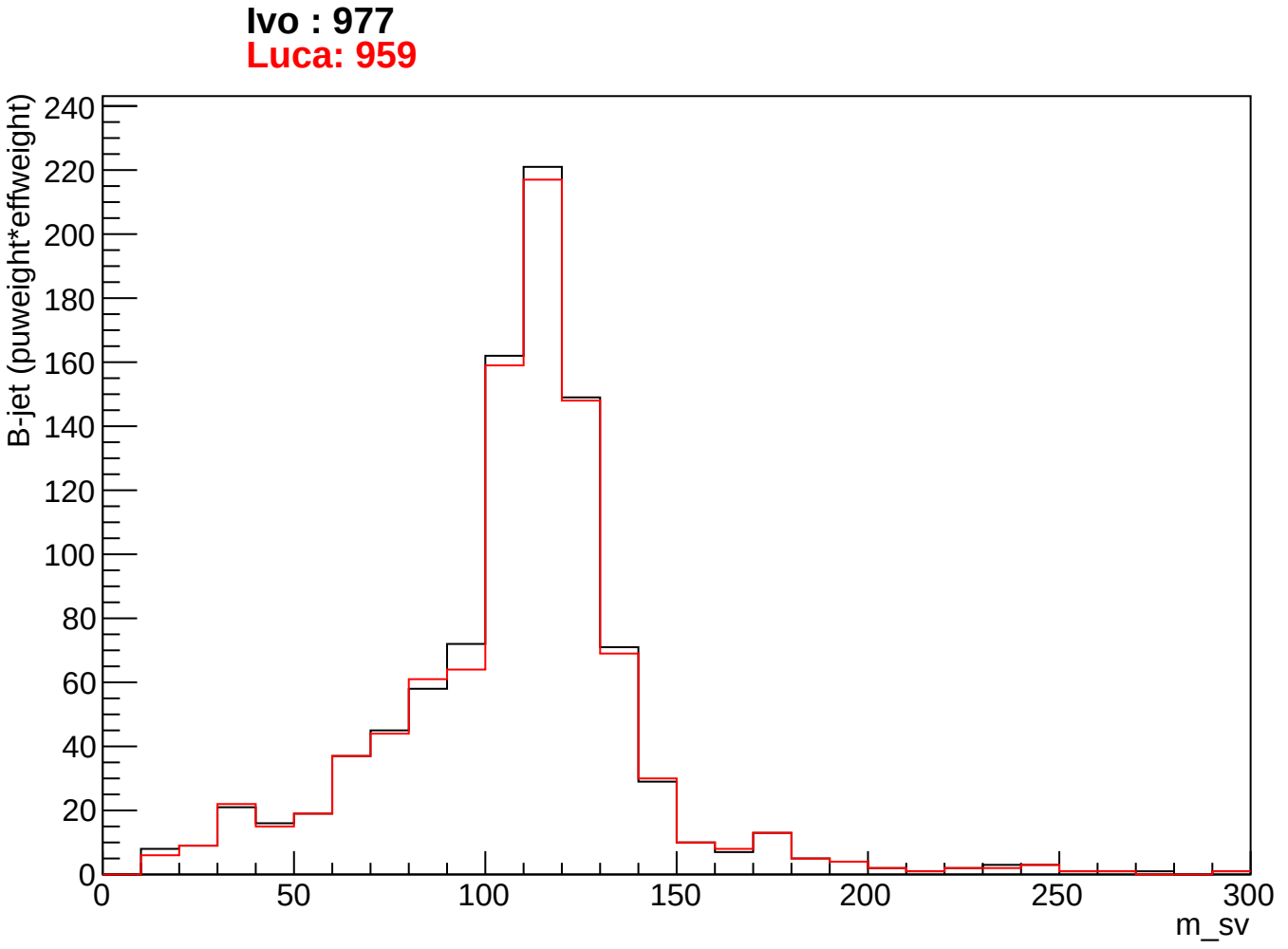

Ivo : 90
Luca: 94
VBF (puweight)
0
2
4
6
8
10
12
14
16
18
20
22
0
50
100
150
200
250
300
m_sv


Ivo : 977
Luca: 959
B-jet (puweight)
240
220
200
180
160
140
120
100
80
60
40
20
0
0
50
100
150
200
250
300
m_sv

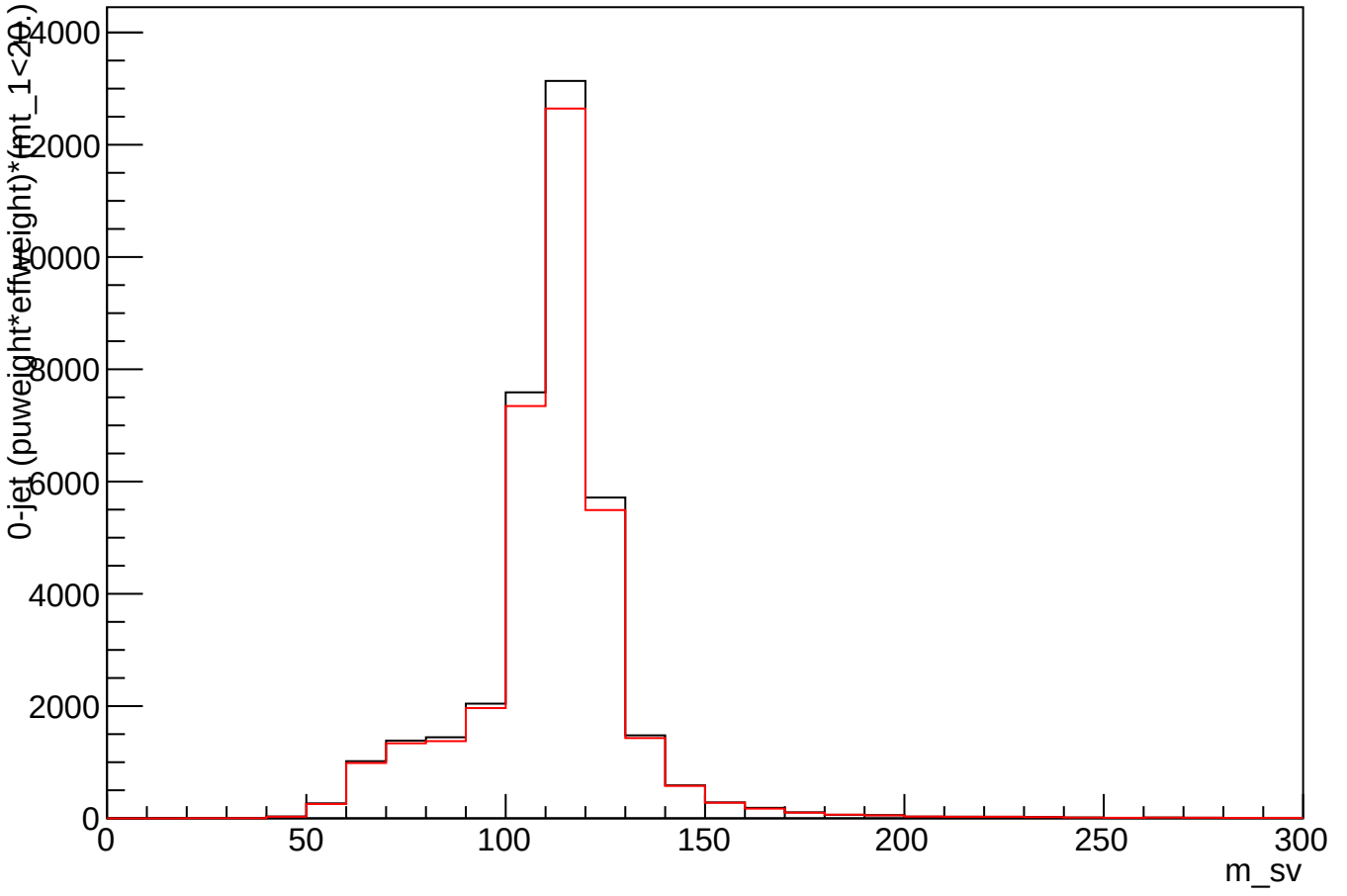

Ivo : 55256
Luca: 53201
0 jet (weight*effweight)
m_sv
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
50
100
150
200
250
300

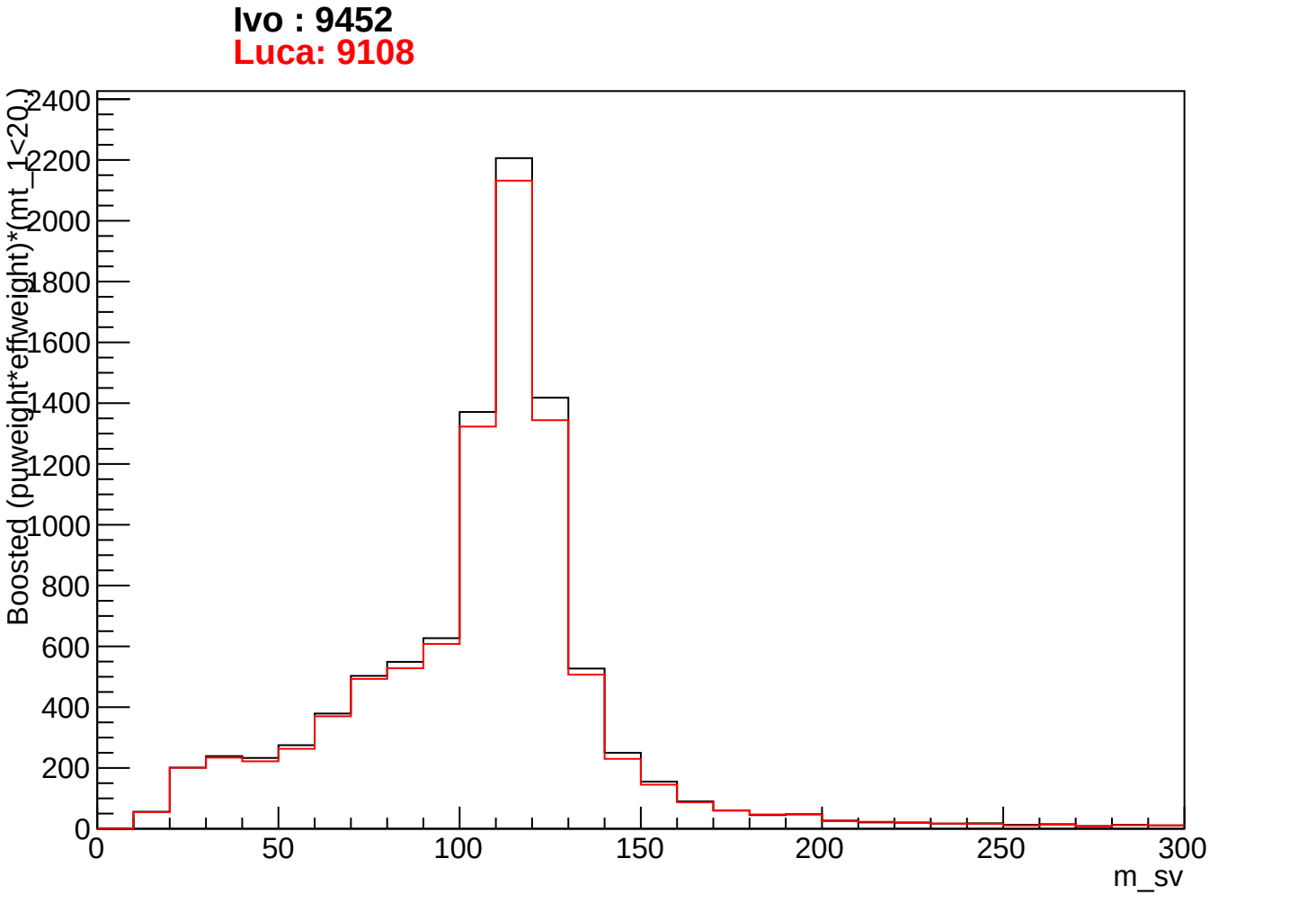

Ivo : 14669
Luca: 14128
Boosted (puweight*effweight)
3500
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
m_sv

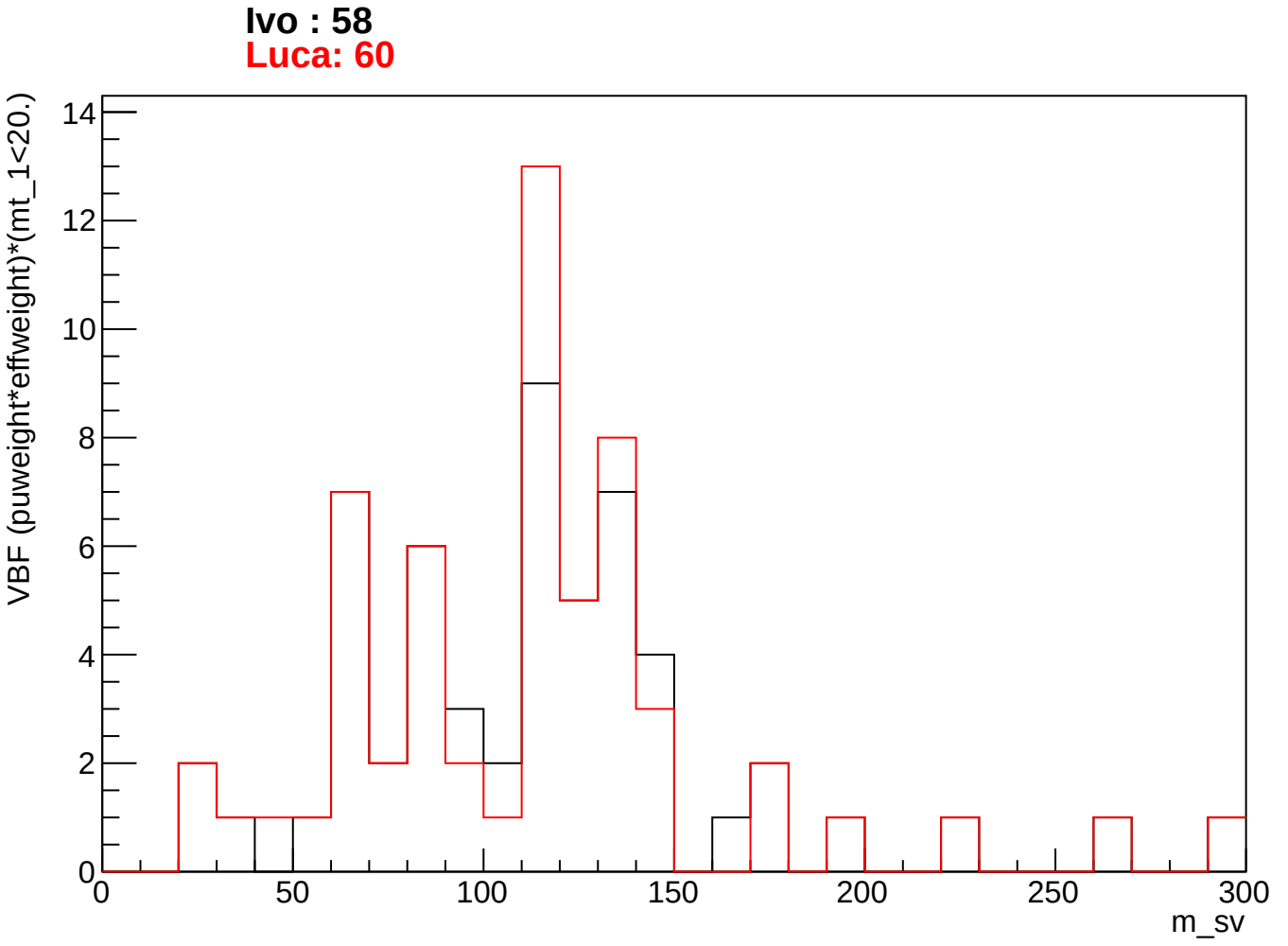

Ivo : 90
Luca: 94
VBF (puweight*effweight)
0
2
4
6
8
10
12
14
16
18
20
22
0
50
100
150
200
250
300
m_sv

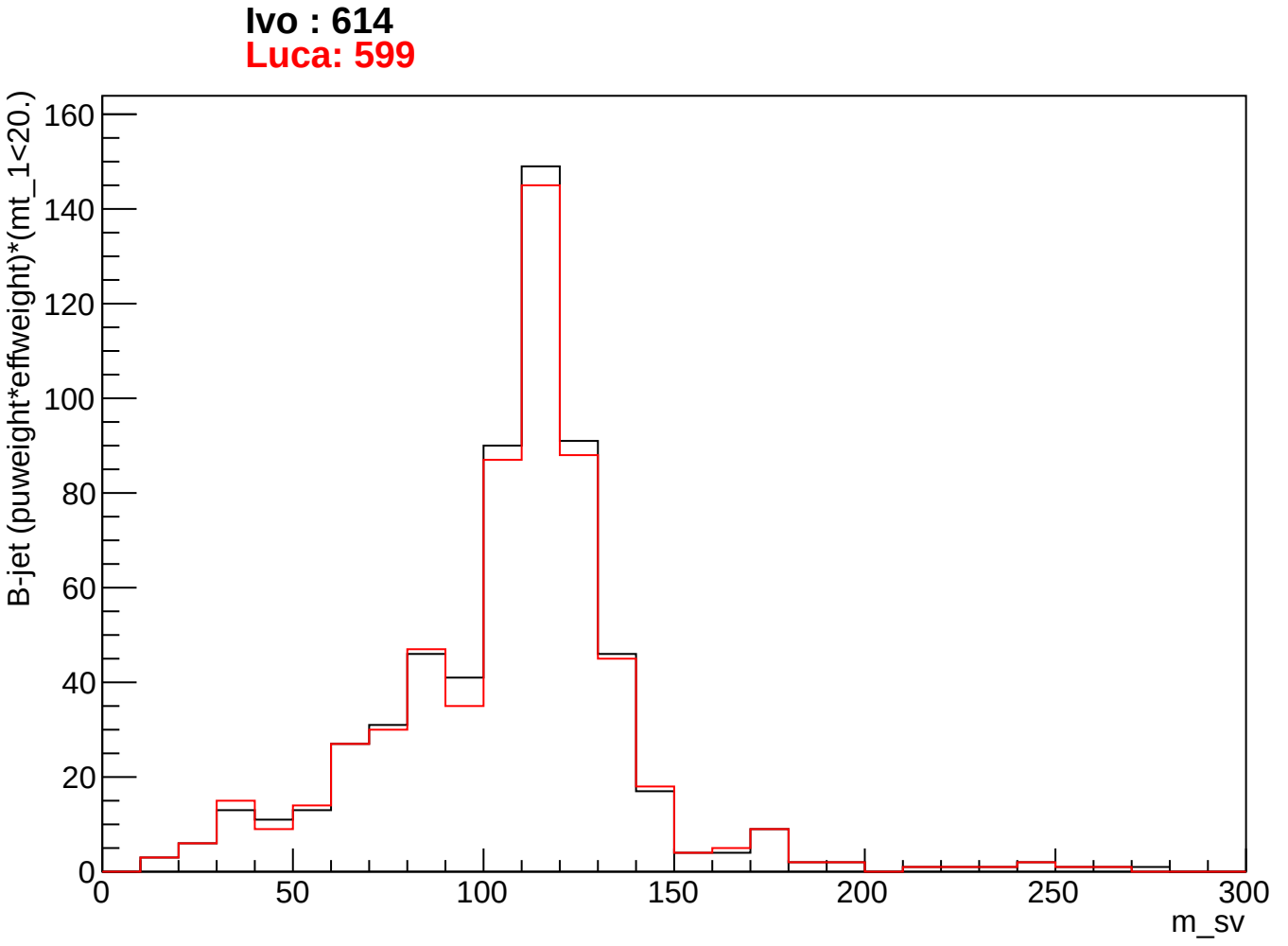

Ivo : 977
Luca: 959
B-jet (puweight*effweight)
240
220
200
180
160
140
120
100
80
60
40
20
0
0
50
100
150
200
250
300
m_sv

Ivo : 35627
Luca: 34337




Ivo : 9452
Luca: 9108
Boosted (puweight*effweight)*(mt_1<20.)
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
300
m_sv


Ivo : 58
Luca: 60
VBF (puweight*effweight)*(mt_1<20.)
14
12
10
8
6
4
2
0
0
50
100
150
200
250
300
m_sv


Ivo : 614
Luca: 599
B-jet (puweight*effweight)*(mt_1<20.)
m_sv
0
20
40
60
80
100
120
140
160
0
50
100
150
200
250
300