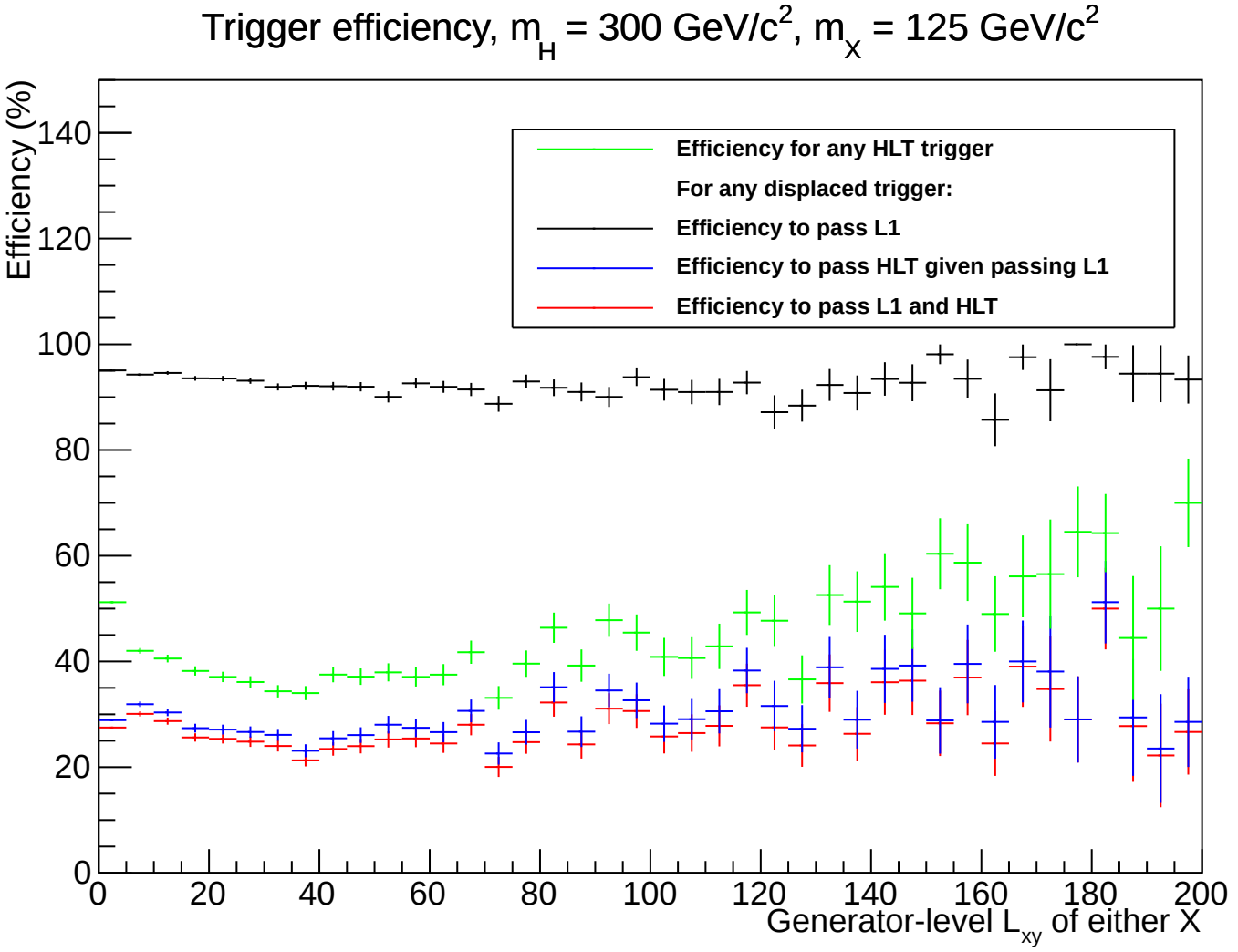
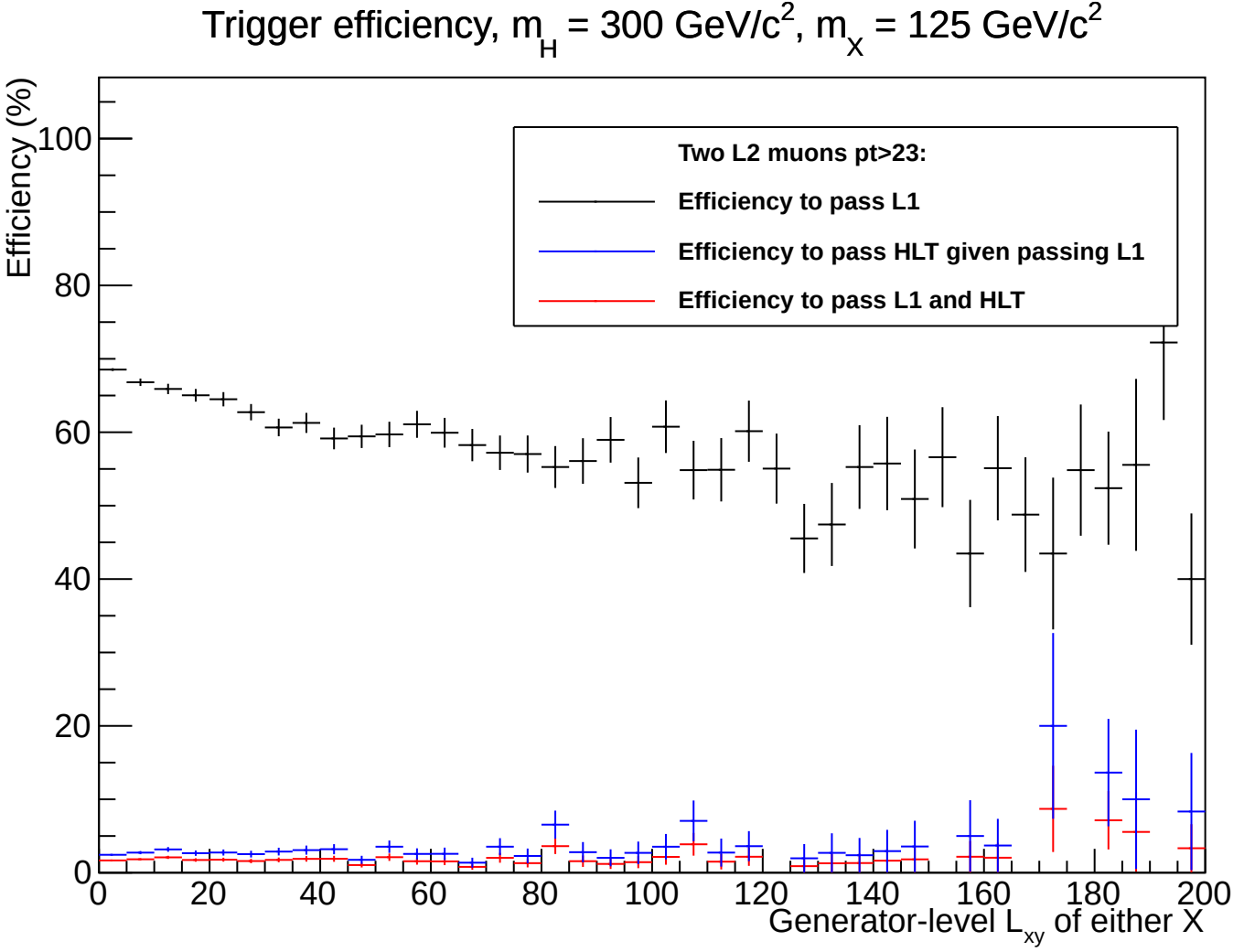
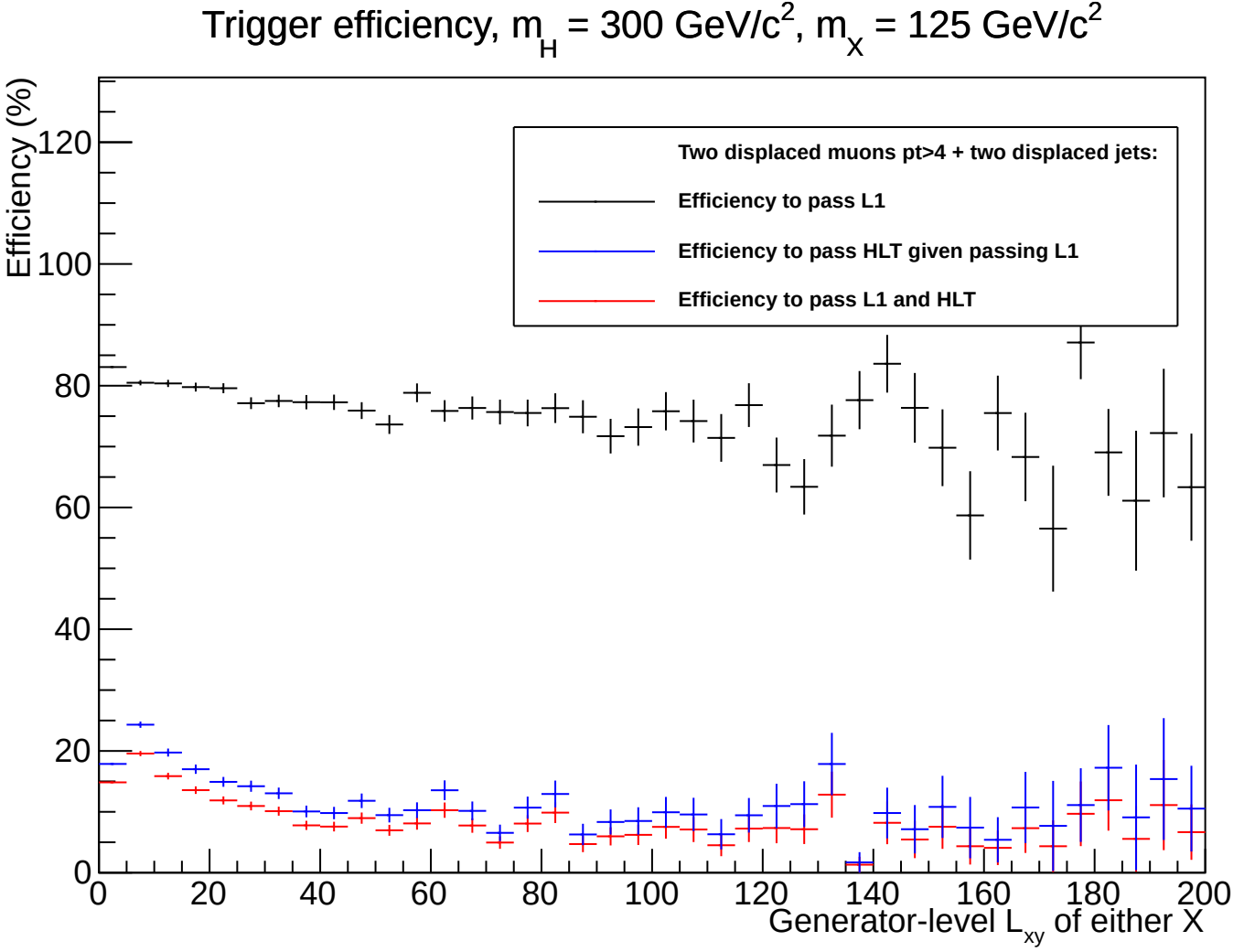
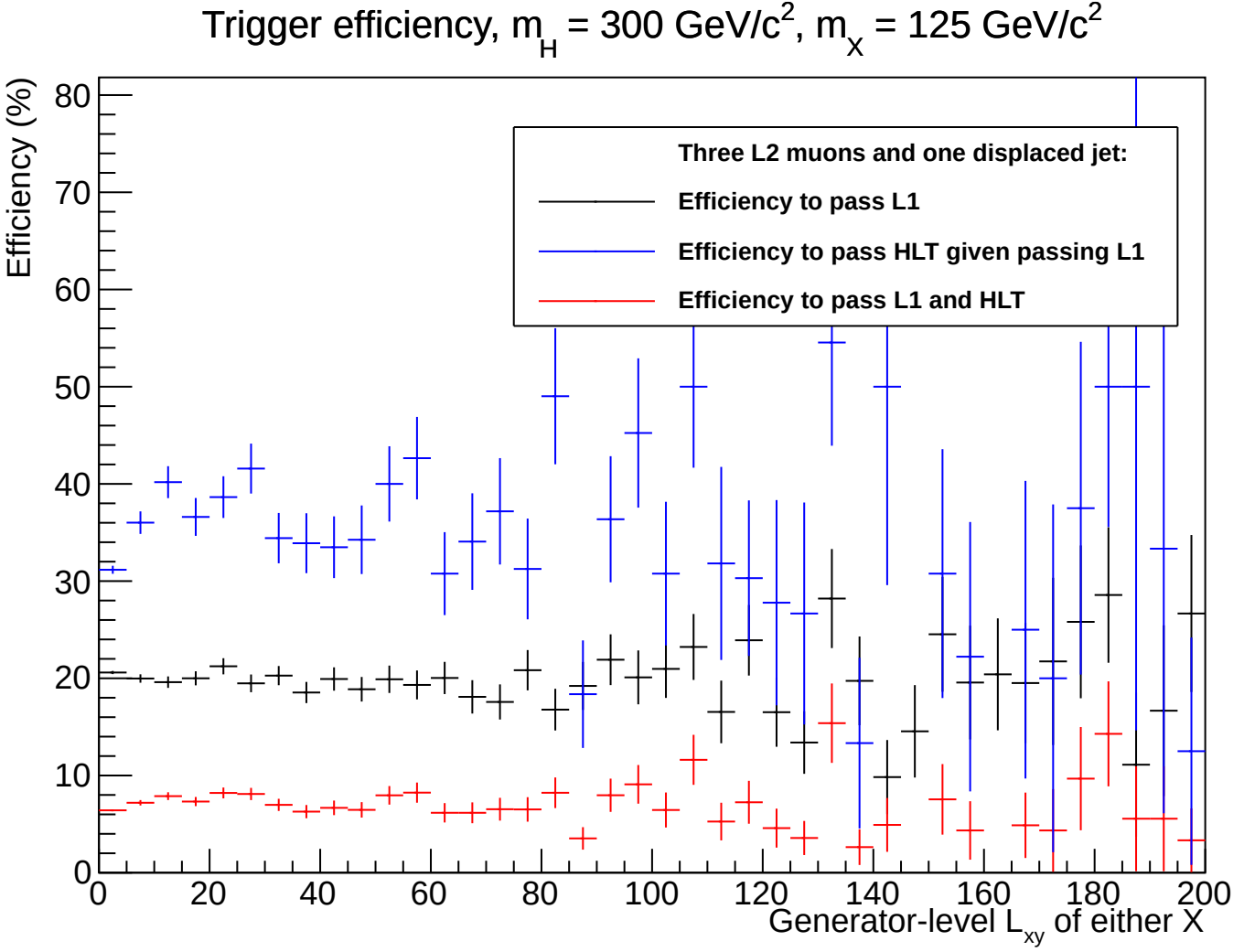
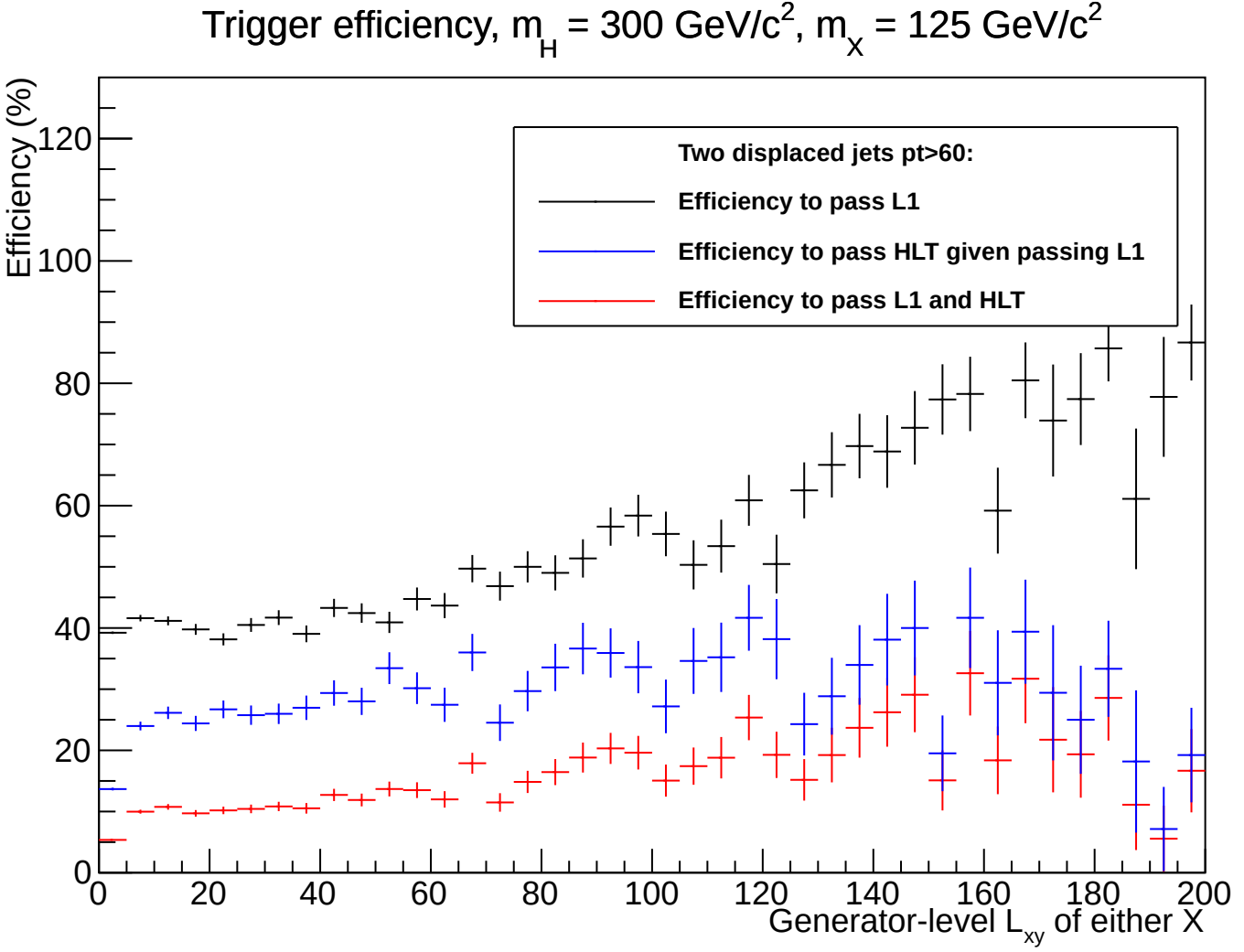
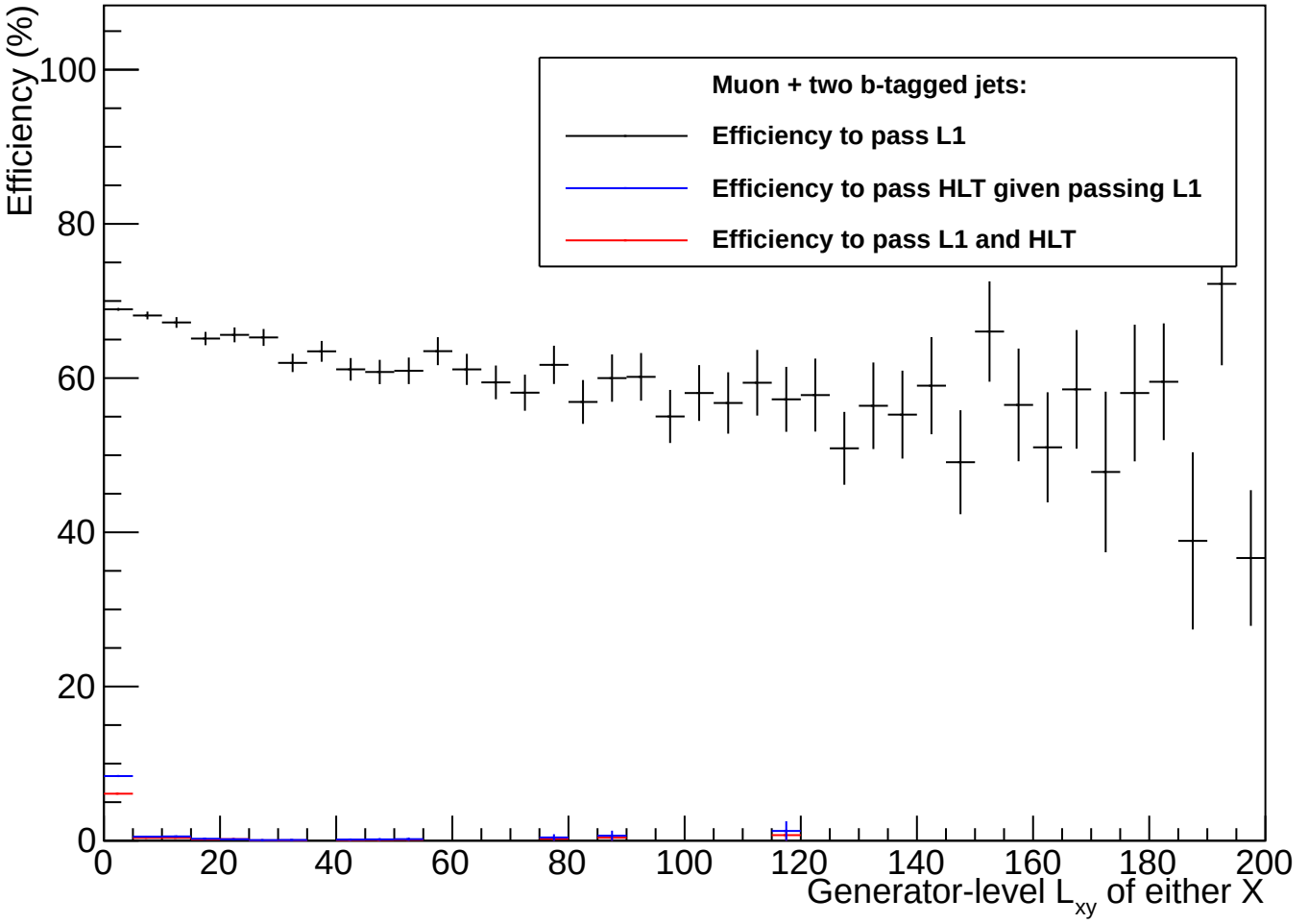

Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
0
20
40
60
80
100
120
140
0
20
40
60
80
100
120
140
160
180
200
Generator-level L_xy of either X
Efficiency for any HLT trigger
For any displaced trigger:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT

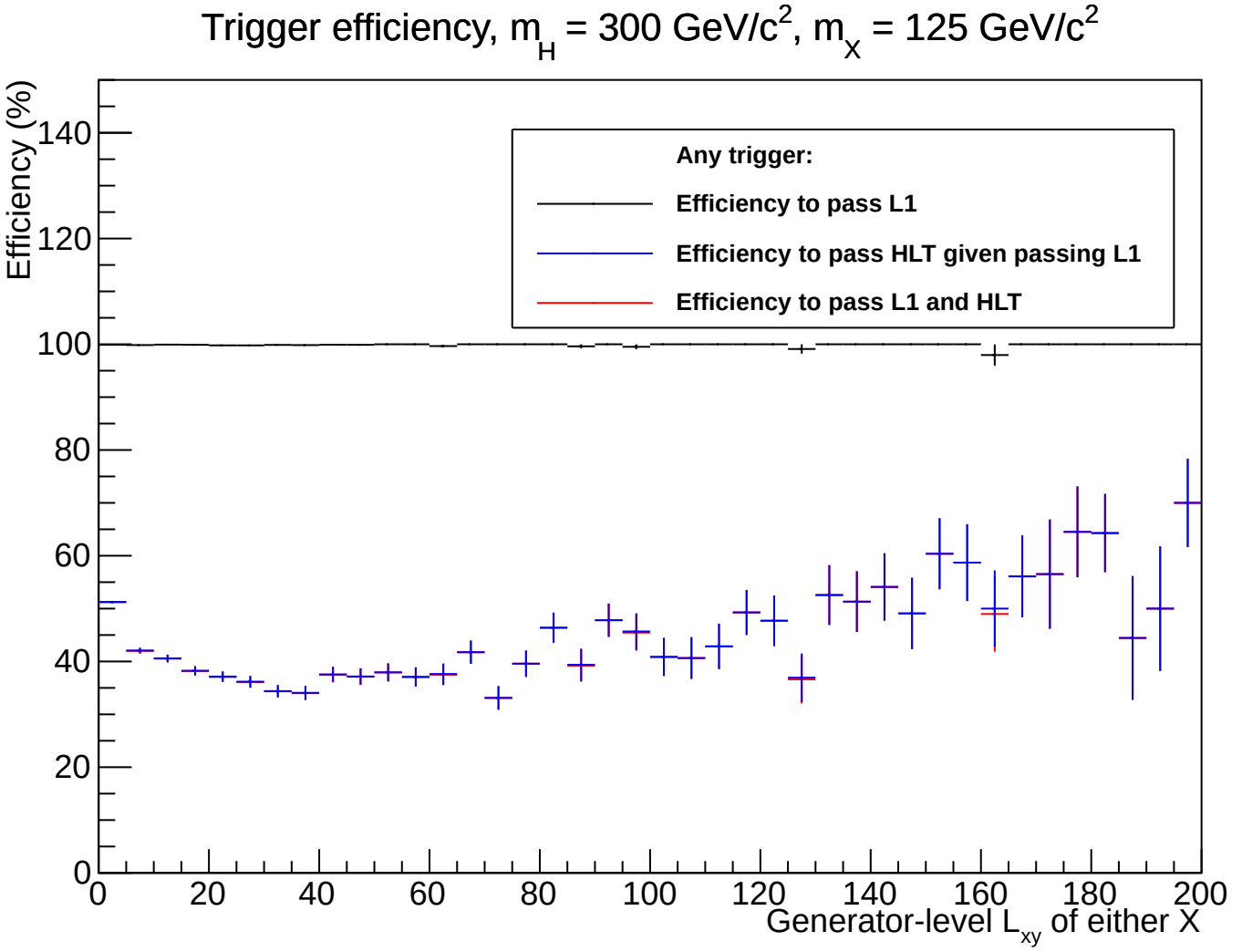

Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
0
20
40
60
80
100
0
20
40
60
80
100
120
140
160
180
200
Generator-level L_xy of either X
Two L2 muons pt>23:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT


Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
0
20
40
60
80
100
120
0
20
40
60
80
100
120
140
160
180
200
Generator-level L_xy of either X
Two displaced muons pt>4 + two displaced jets:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT


Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
Generator-level L_xy of either X
Three L2 muons and one displaced jet:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160
180
200


Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
0
20
40
60
80
100
120
0
20
40
60
80
100
120
140
160
180
200
Generator-level L_xy of either X
Two displaced jets pt>60:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT


Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
Generator-level L_xy of either X
Muon + two b-tagged jets:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT


Trigger efficiency, m_H = 300 GeV/c^2, m_X = 125 GeV/c^2
Efficiency (%)
Any trigger:
Efficiency to pass L1
Efficiency to pass HLT given passing L1
Efficiency to pass L1 and HLT
Generator-level L_xy of either X
0
20
40
60
80
100
120
140
160
180
200