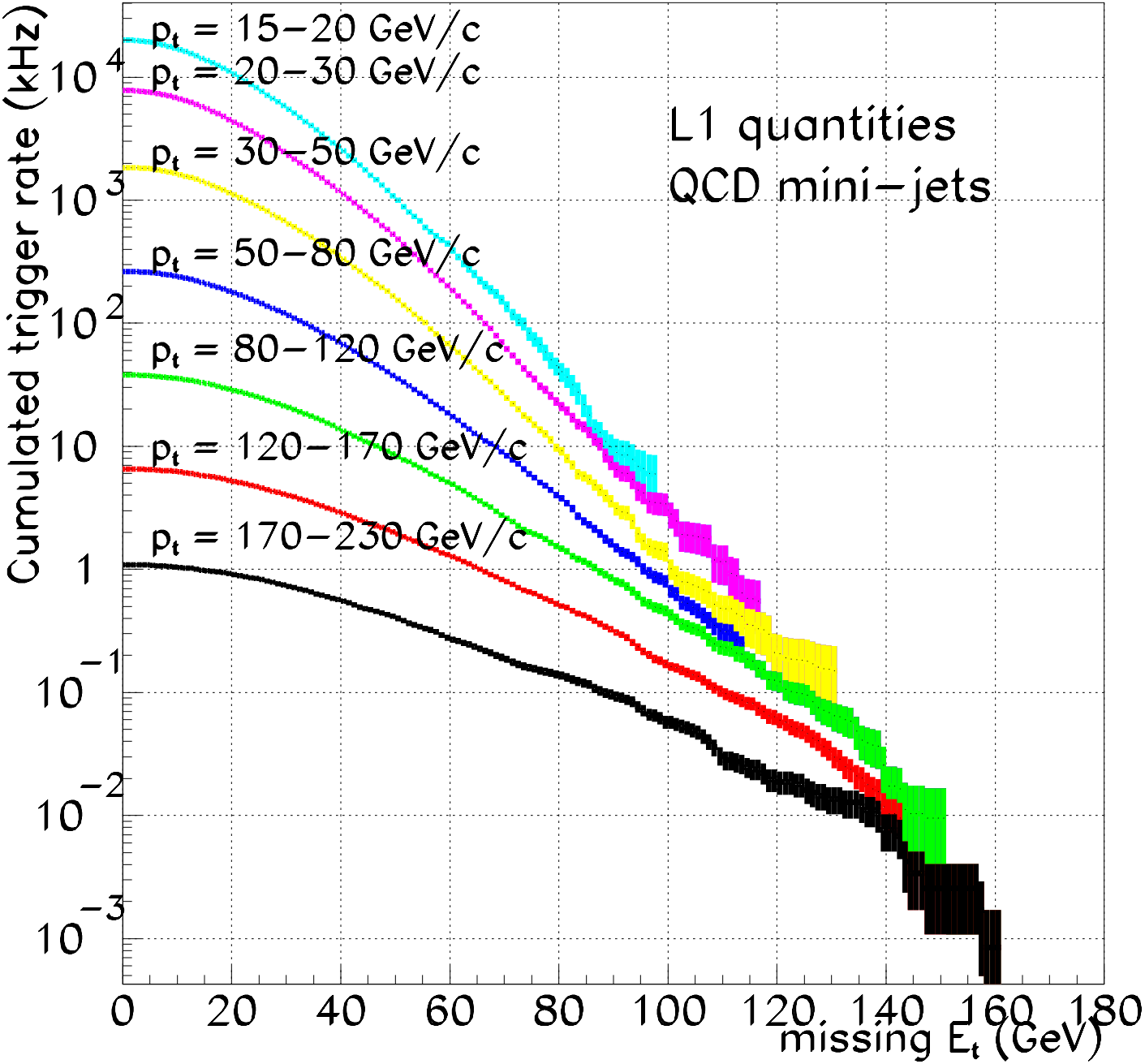
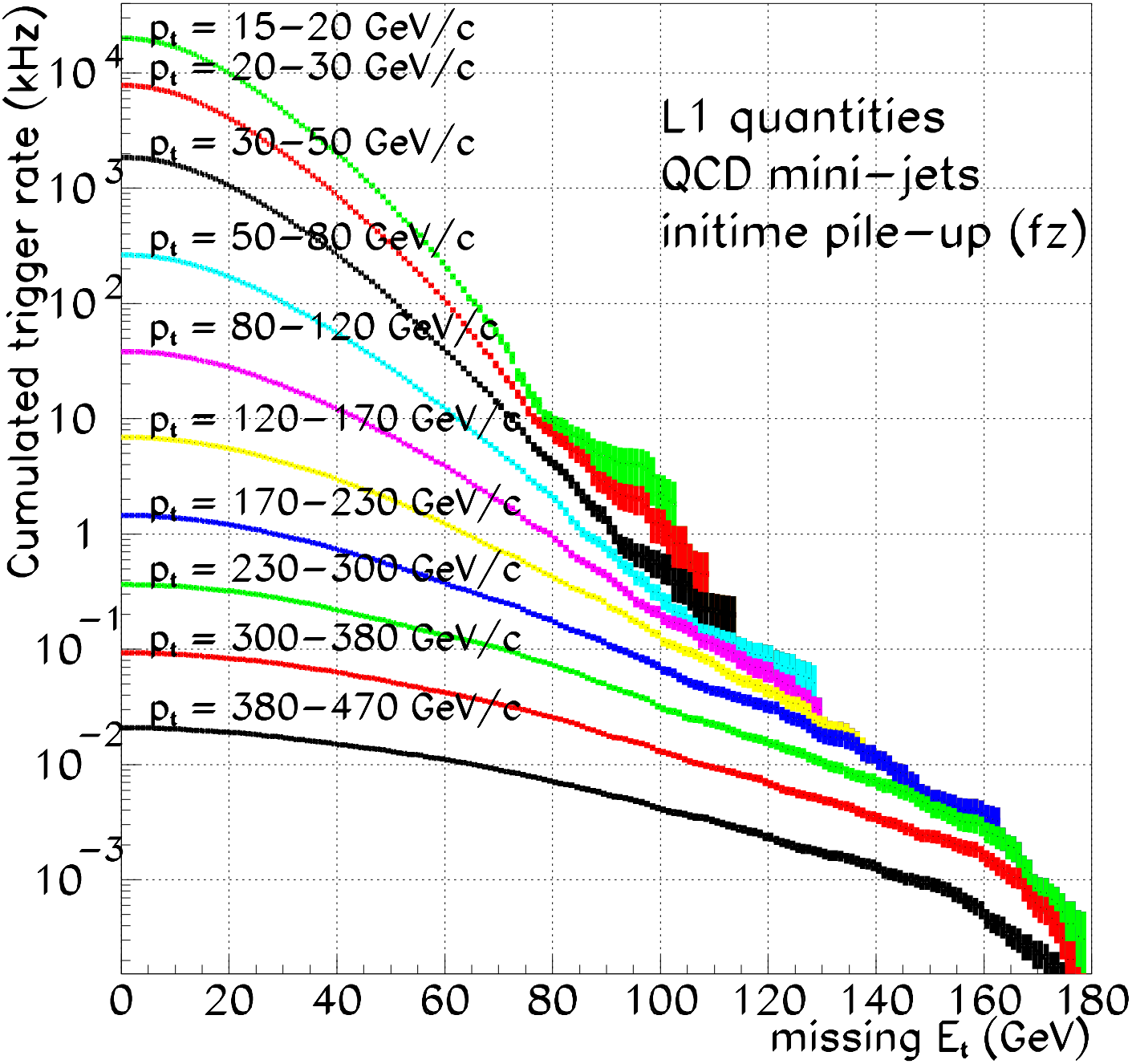
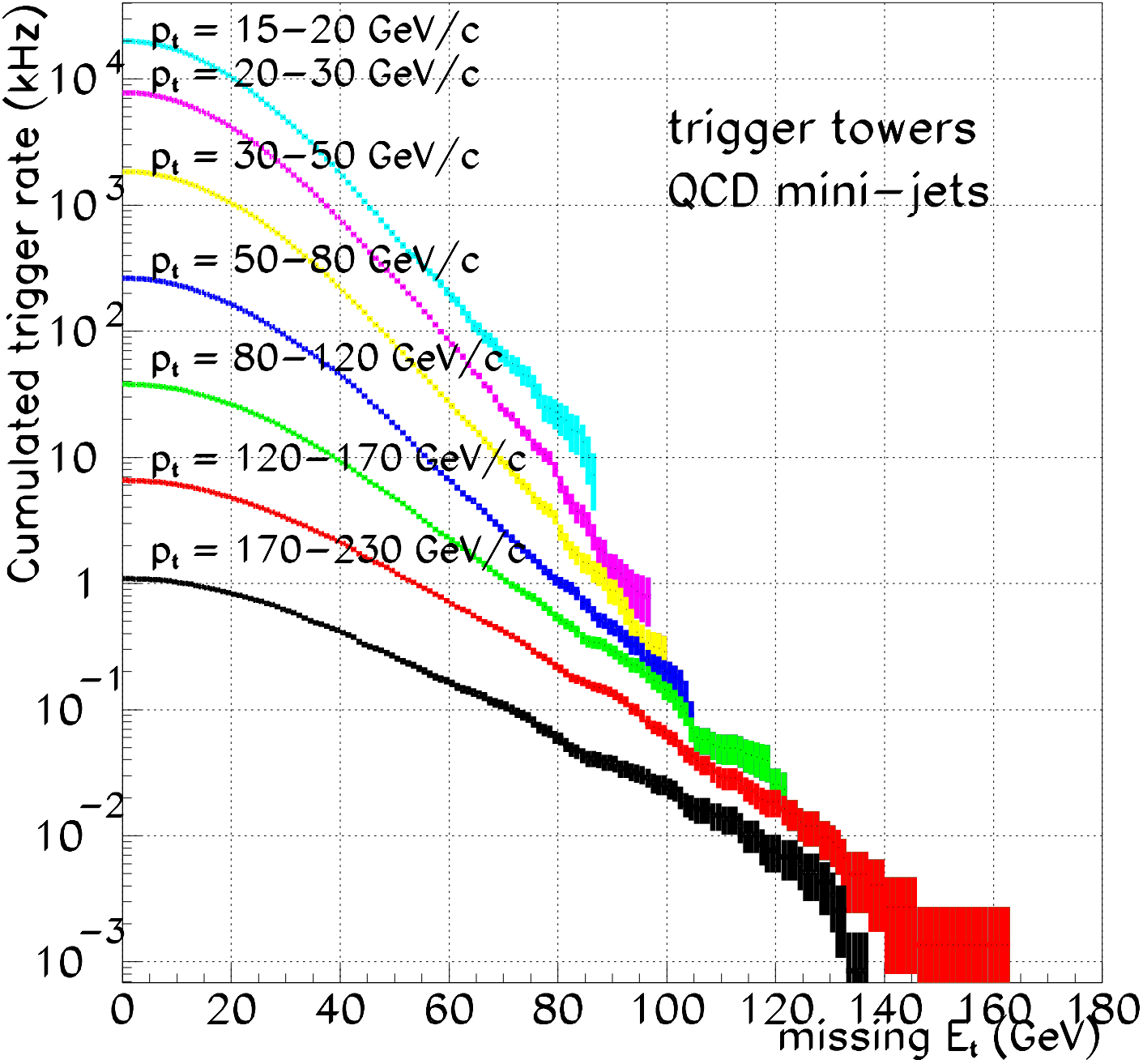
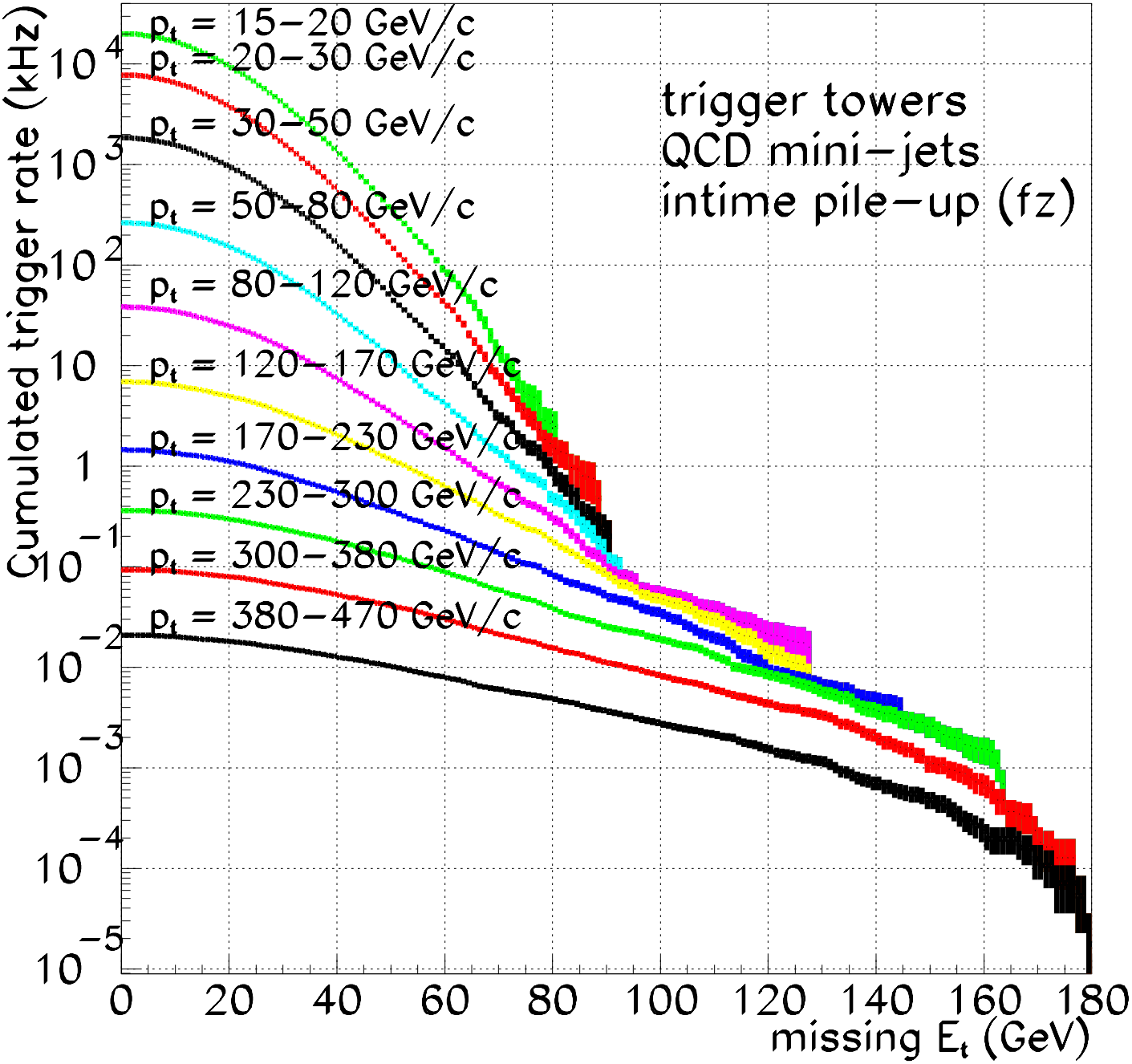

p_t = 15−20 GeV/c
p_t = 20−30 GeV/c
p_t = 30−50 GeV/c
p_t = 50−80 GeV/c
p_t = 80−120 GeV/c
p_t = 120−170 GeV/c
p_t = 170−230 GeV/c
L1 quantities
QCD mini−jets
Cumulated trigger rate (kHz)
missing E_t (GeV)
10^4
10^3
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
0
20
40
60
80
100
120
140
160
180


Cumulated trigger rate (kHz)
missing E_t (GeV)
p_t = 15−20 GeV/c
p_t = 20−30 GeV/c
p_t = 30−50 GeV/c
p_t = 50−80 GeV/c
p_t = 80−120 GeV/c
p_t = 120−170 GeV/c
p_t = 170−230 GeV/c
p_t = 230−300 GeV/c
p_t = 300−380 GeV/c
p_t = 380−470 GeV/c
L1 quantities
QCD mini−jets
initime pile−up (fz)
10^4
10^3
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
0
20
40
60
80
100
120
140
160
180


p_t = 15−20 GeV/c
p_t = 20−30 GeV/c
p_t = 30−50 GeV/c
p_t = 50−80 GeV/c
p_t = 80−120 GeV/c
p_t = 120−170 GeV/c
p_t = 170−230 GeV/c
trigger towers
QCD mini−jets
Cumulated trigger rate (kHz)
missing E_t (GeV)
10^4
10^3
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
0
20
40
60
80
100
120
140
160
180


p_t = 15−20 GeV/c
p_t = 20−30 GeV/c
p_t = 30−50 GeV/c
p_t = 50−80 GeV/c
p_t = 80−120 GeV/c
p_t = 120−170 GeV/c
p_t = 170−230 GeV/c
p_t = 230−300 GeV/c
p_t = 300−380 GeV/c
p_t = 380−470 GeV/c
trigger towers
QCD mini−jets
intime pile−up (fz)
Cumulated trigger rate (kHz)
missing E_t (GeV)
10^4
10^3
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140
160
180

before

bin	number	number passing L1	L1 efficiency	error on L1 efficiency
15-20	5000	8	0.0016	0.000565233
20-30	26440	53	0.002004539	0.000275068
30-50	18480	63	0.003409091	0.000428772
50-80	11220	115	0.010249554	0.000950865
80-120	4500	140	0.031111111	0.002588144
120-170	3998	267	0.066783392	0.003948245
170-230	1280	162	0.1265625	0.009293161

now

	number	number passing L1	L1 efficiency	error on L1 efficiency
	12460	2	0.000160514	0.000113491
	26180	13	0.000496562	0.000137687
	18480	23	0.001244589	0.000259353
	11280	56	0.004964539	0.000661766
	4500	70	0.015555556	0.001844727
	3998	161	0.040270135	0.003109171
	1280	117	0.09140625	0.008055042

bin	L1 eff (old/new)	error on old/new		L1 eff (old-new)	error	diff/error
15-20	9.968	7.878628903		0.001439486	0.000577	2.496881
20-30	4.036832305	1.248908645		0.001507976	0.000308	4.902324
30-50	2.739130435	0.666701487		0.002164502	0.000501	4.319428
50-80	2.064553094	0.335291406		0.005285015	0.001158	4.562022
80-120	2	0.28971798		0.015555556	0.003178	4.89432
120-170	1.658385093	0.161266745		0.026513257	0.005025	5.275752
170-230	1.384615385	0.158822978		0.03515625	0.012298	2.858642

fewer pass L1 now than did before. difference is more extreme for low Pt bins than high pt bins