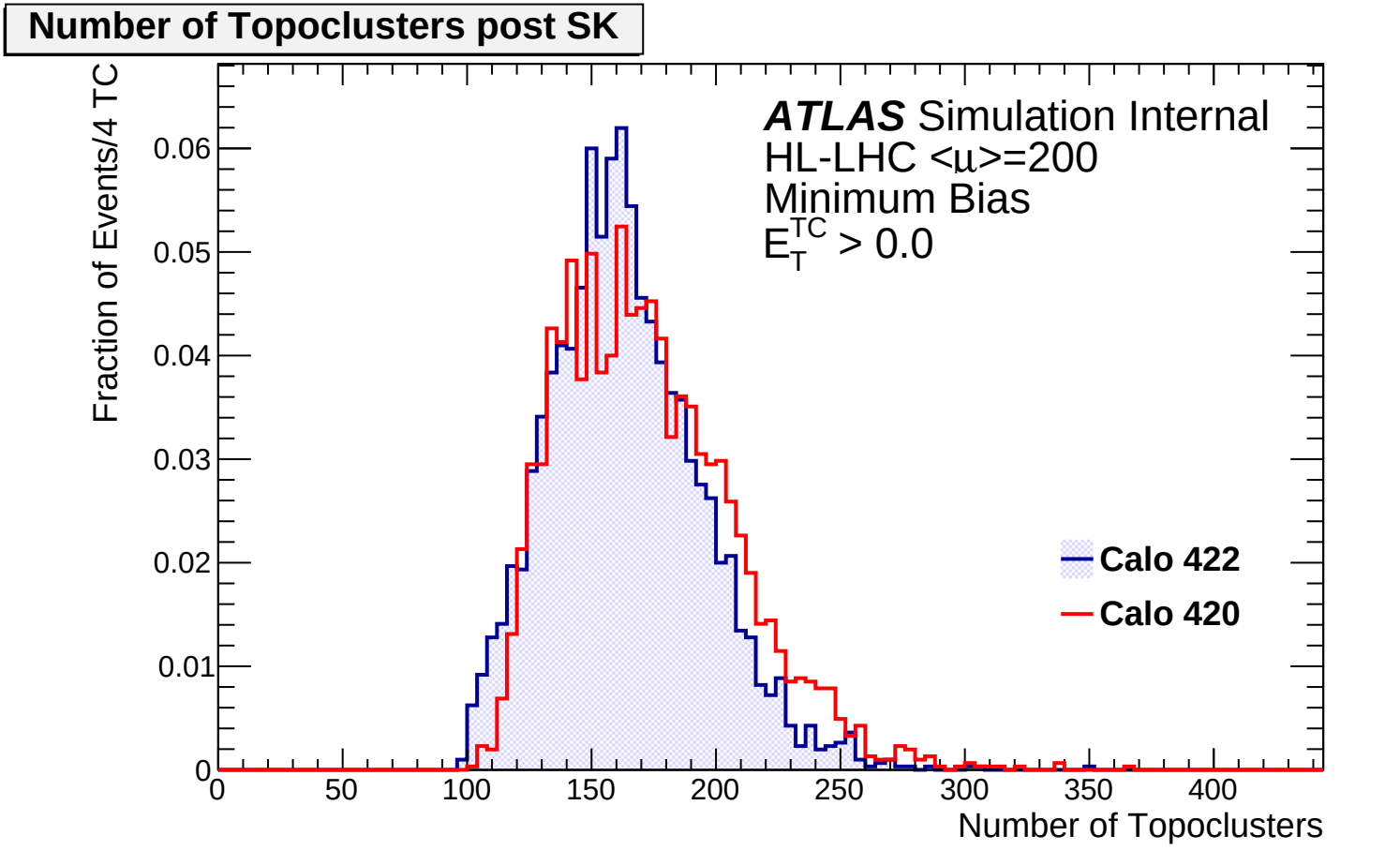
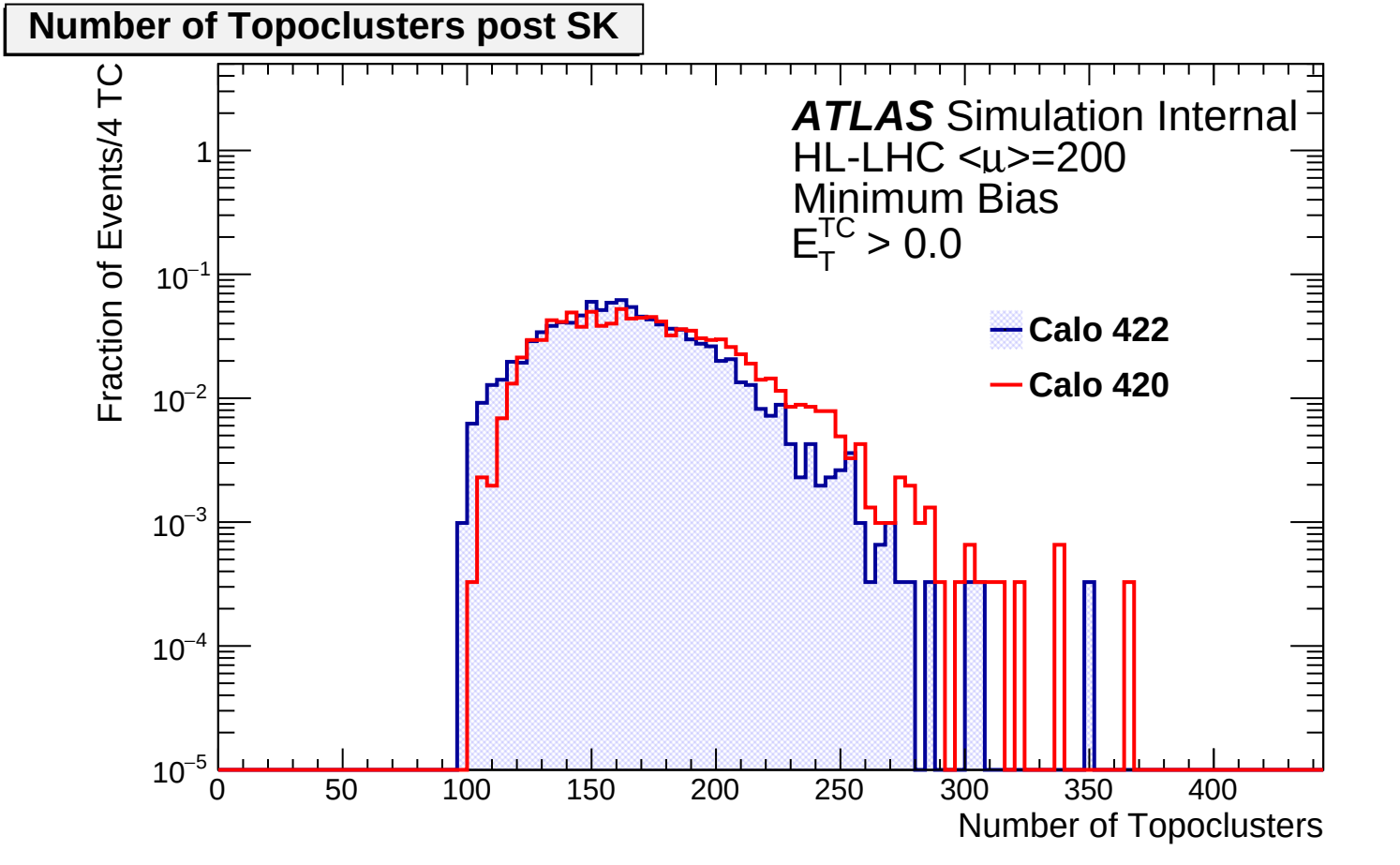
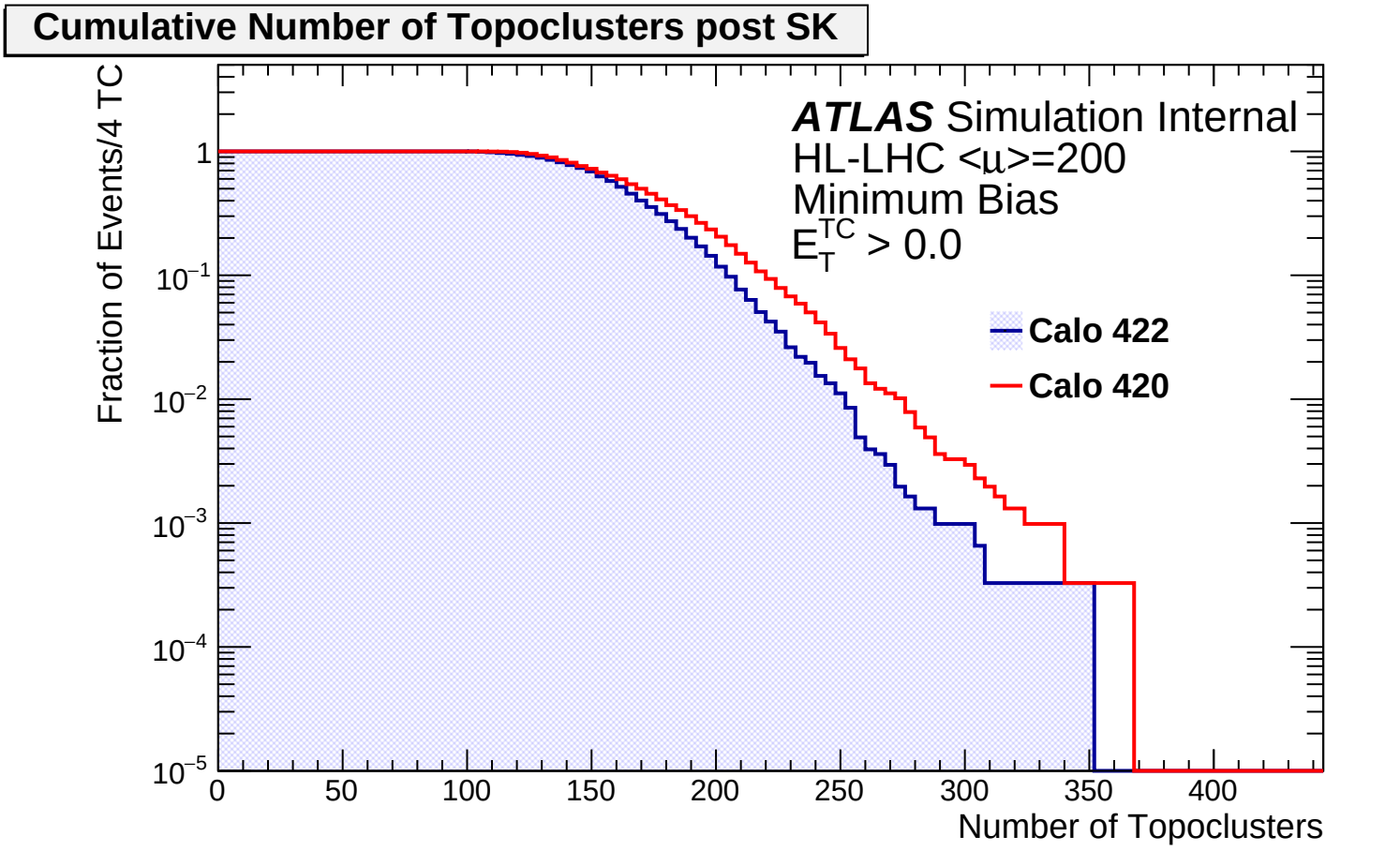
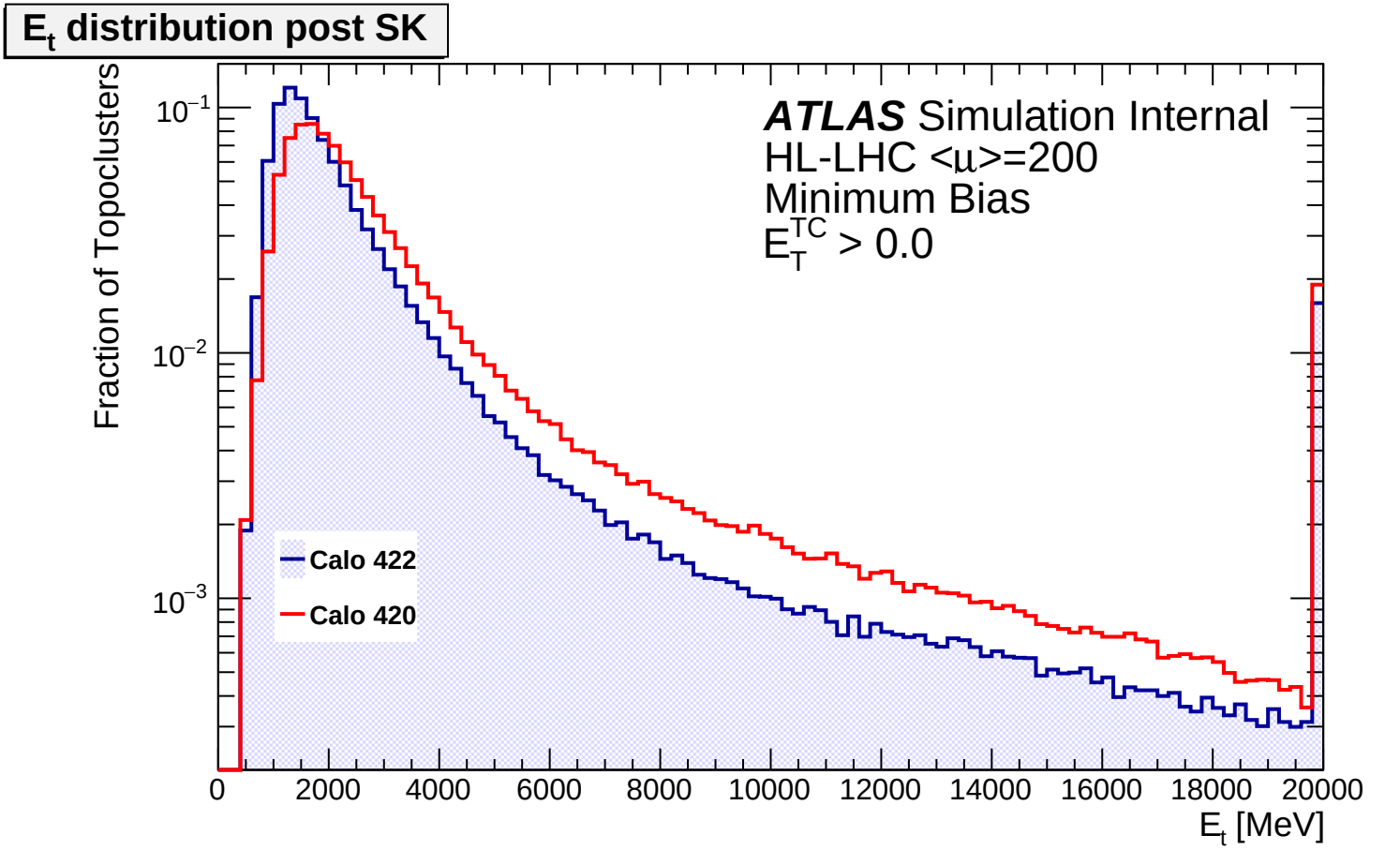
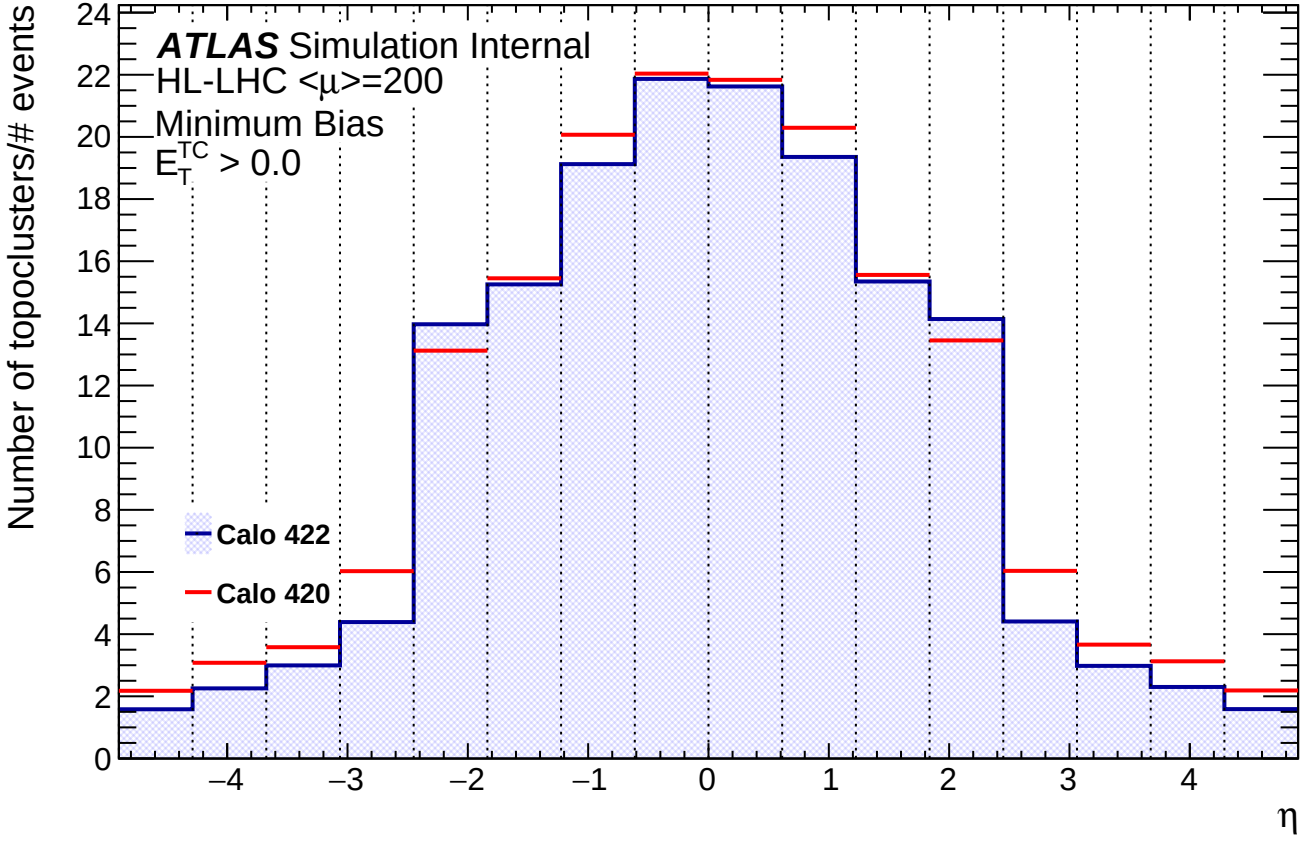

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0
50
100
150
200
250
300
350
400

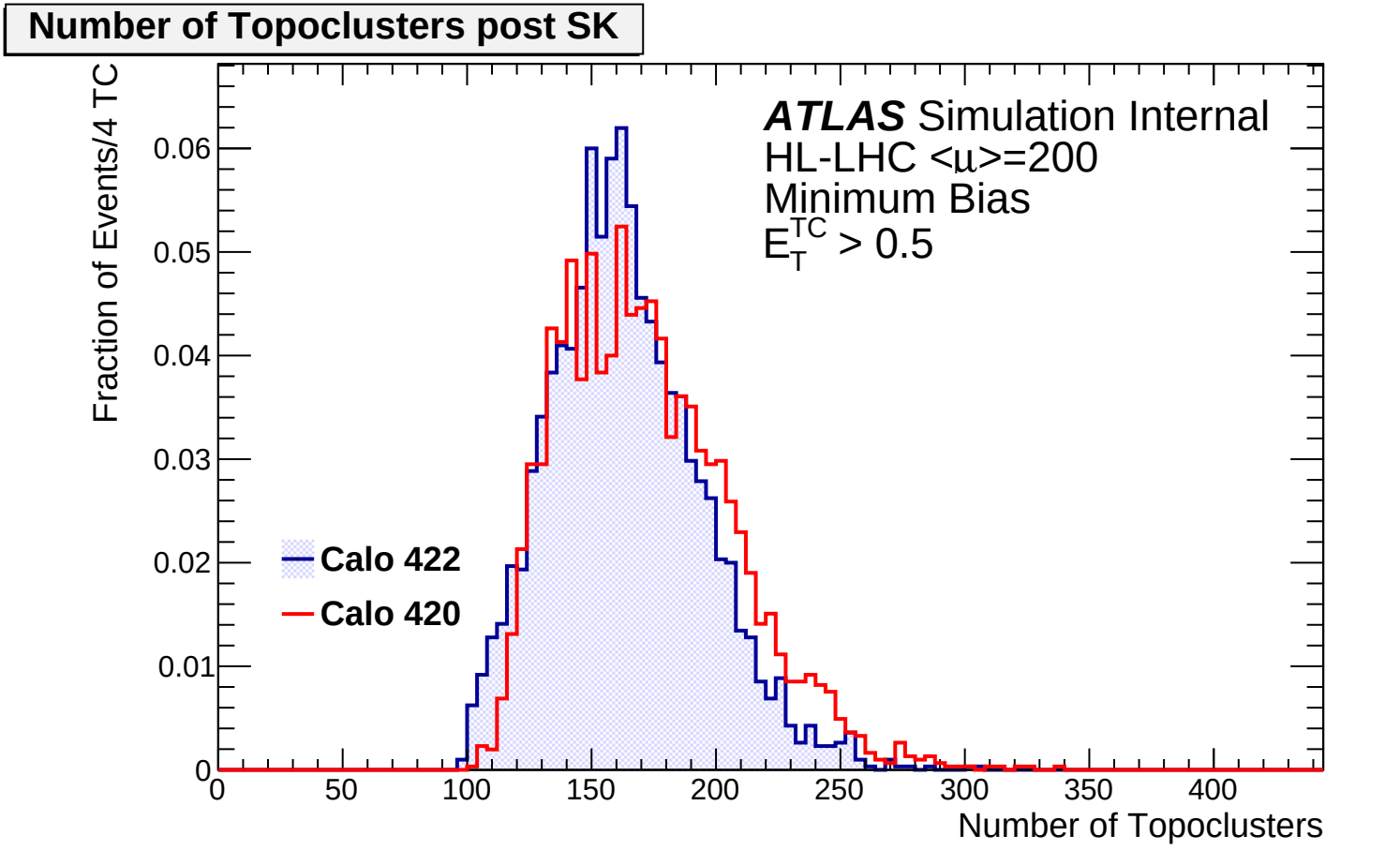

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 0.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^-1
10^-2
10^-3
10^-4
10^-5
0
50
100
150
200
250
300
350
400

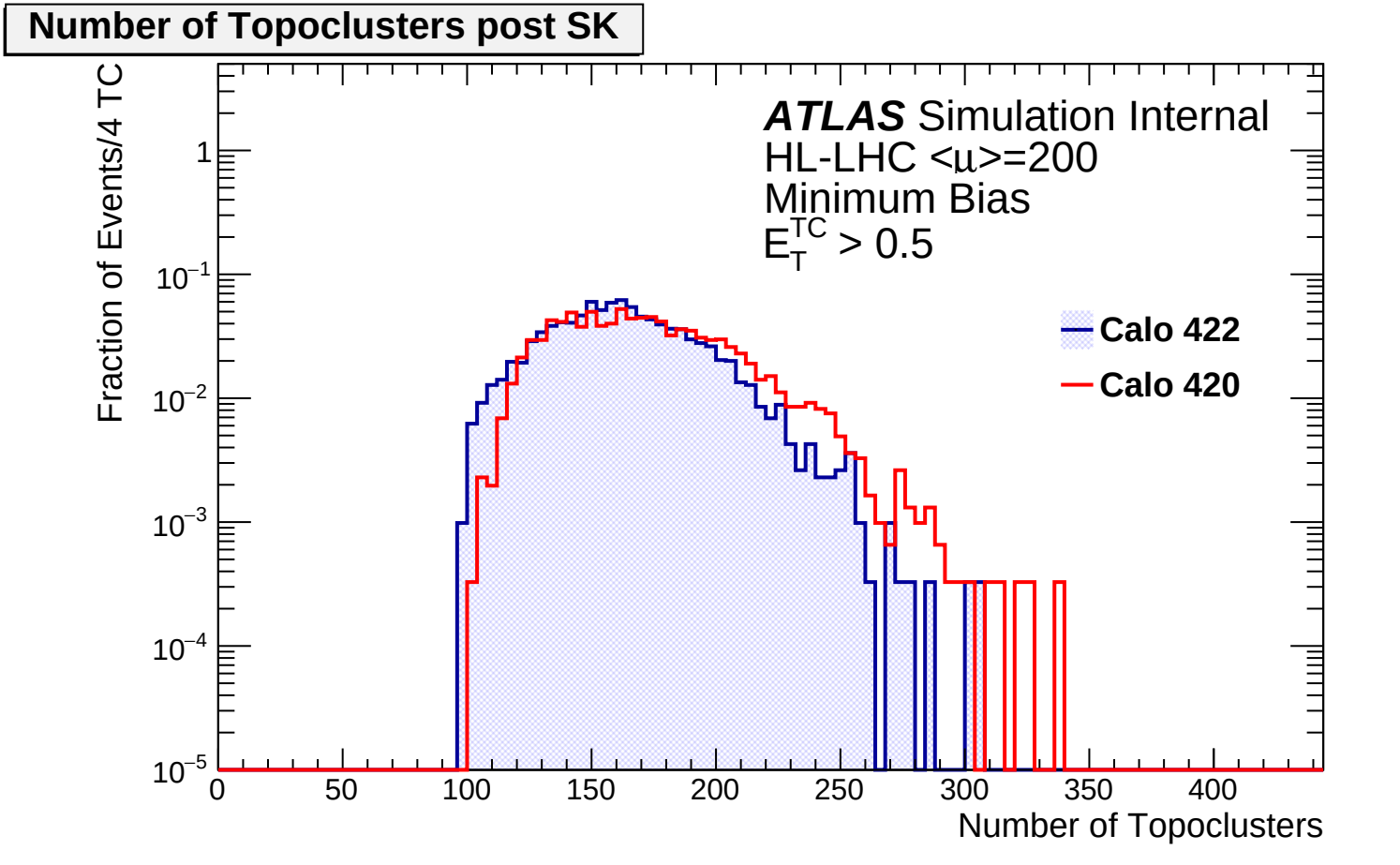

Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400


E_t distribution post SK
Fraction of Topoclusters
10^{-1}
10^{-2}
10^{-3}
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
E_t [MeV]

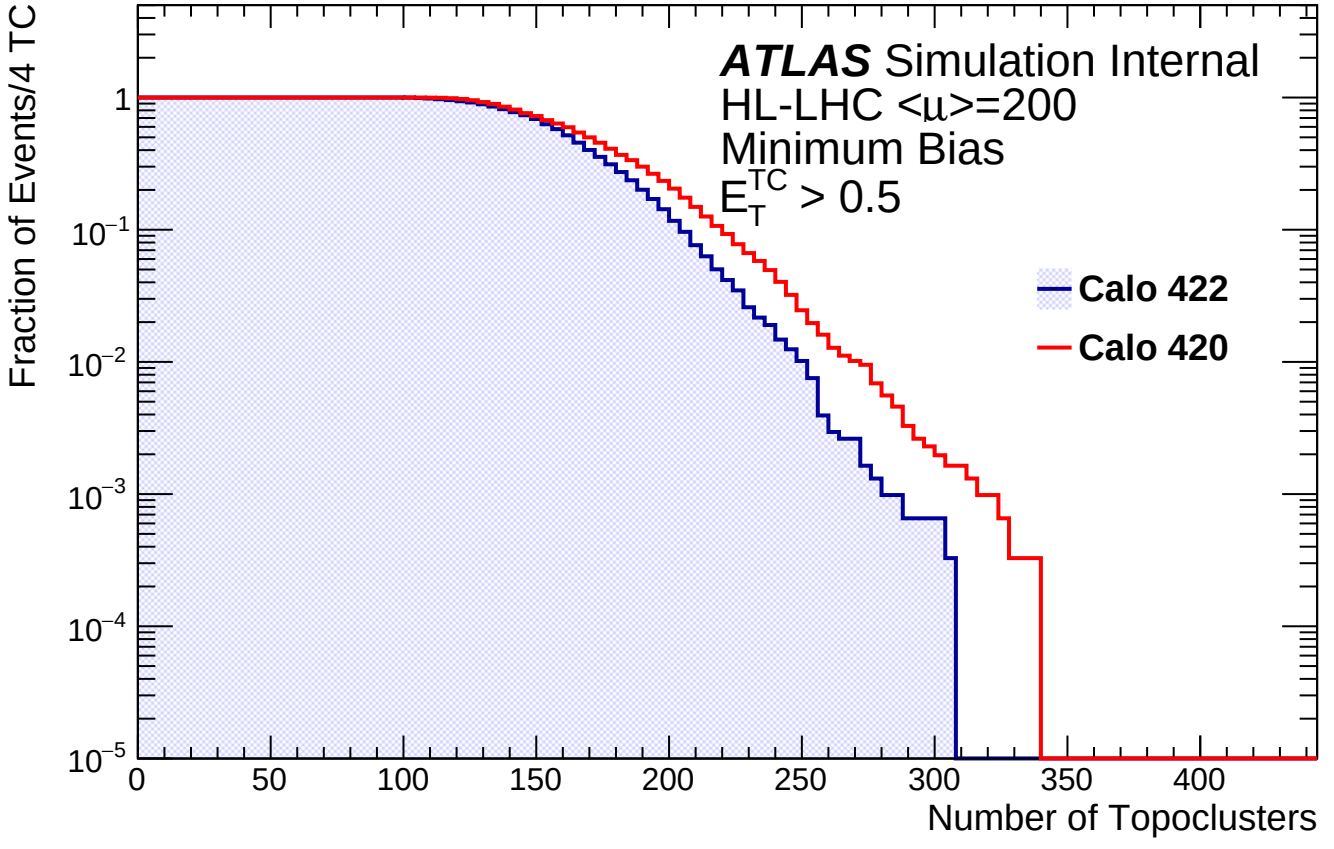
Average number of topoclusters as function of η post SK

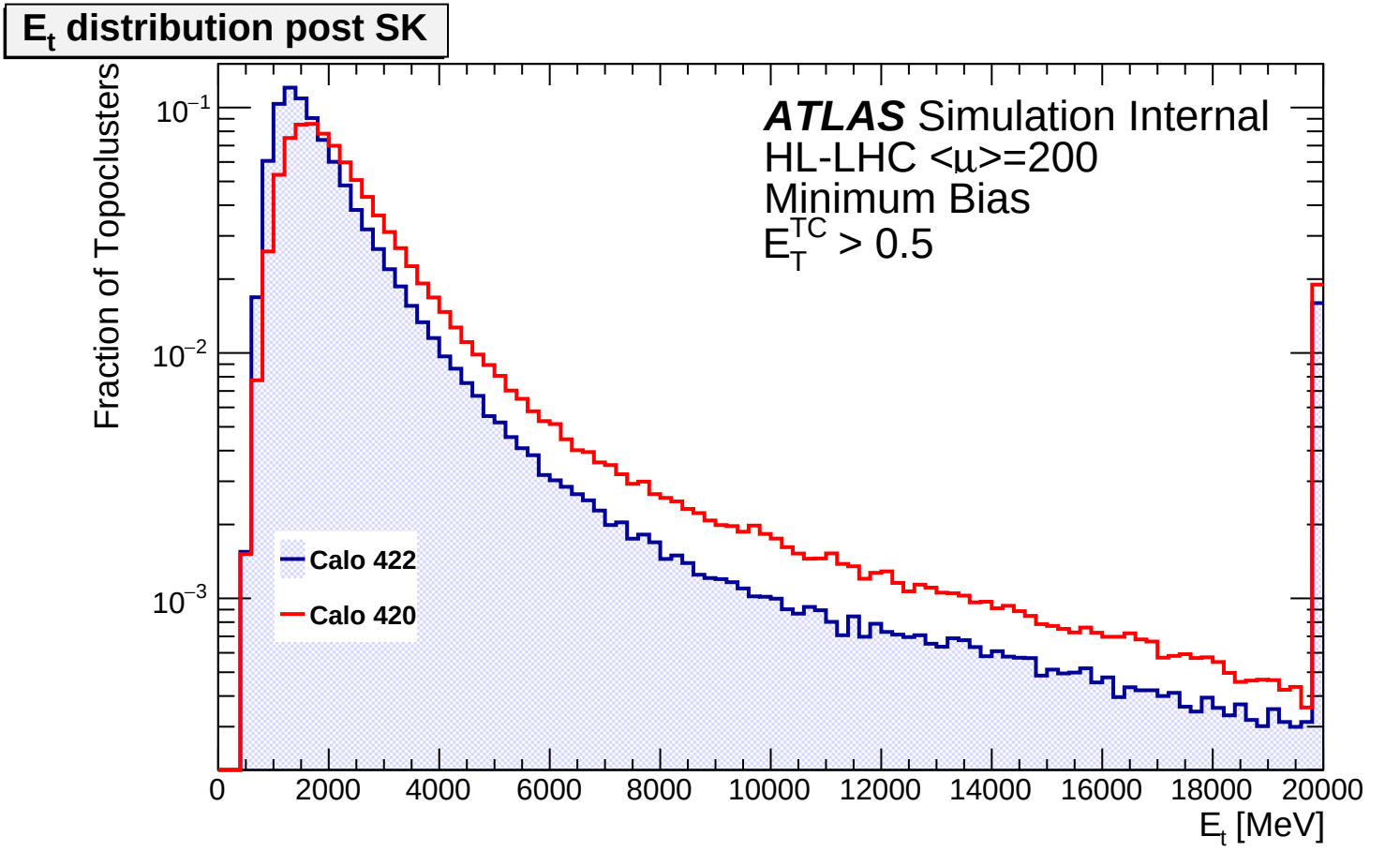


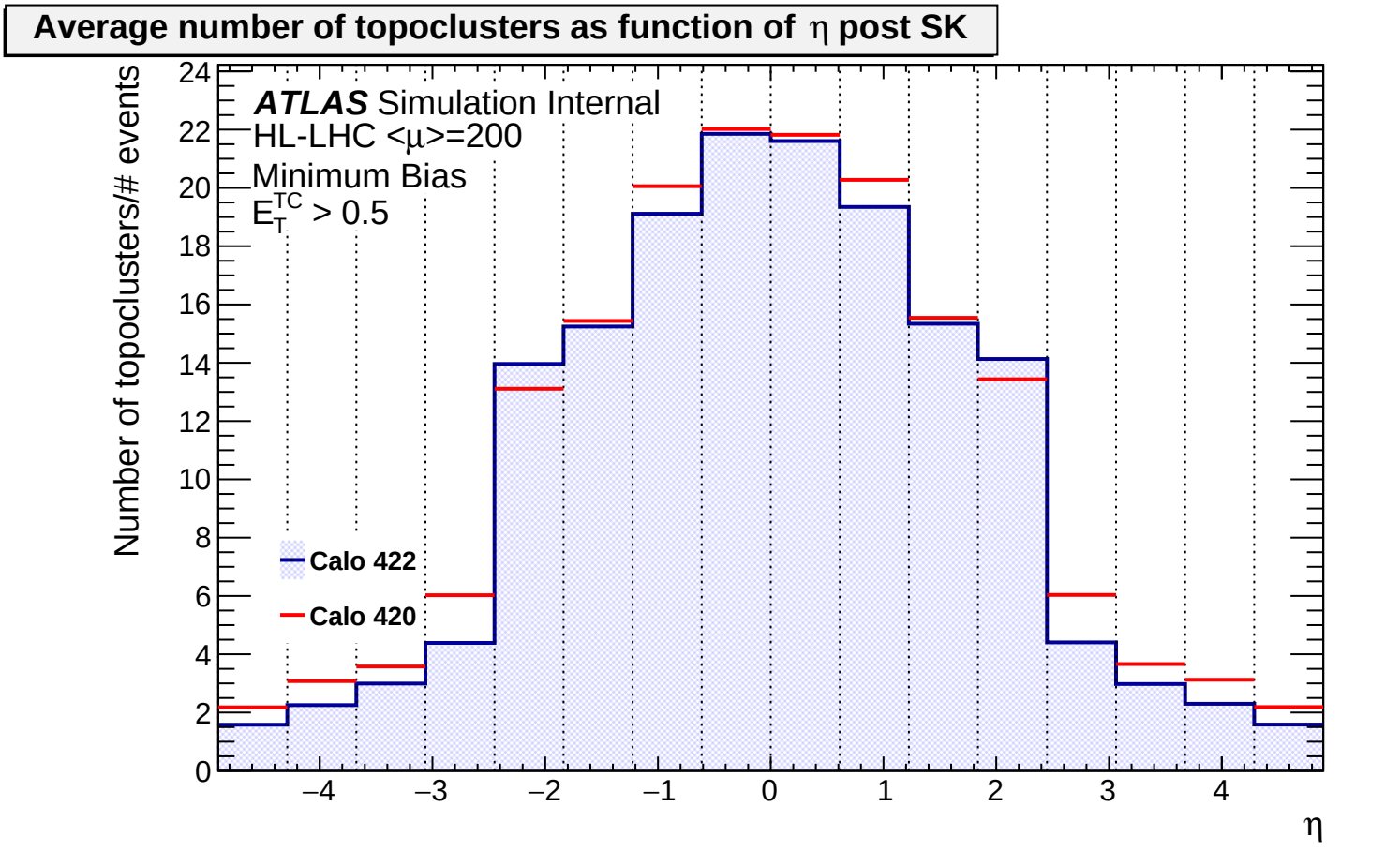

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.5
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0
50
100
150
200
250
300
350
400

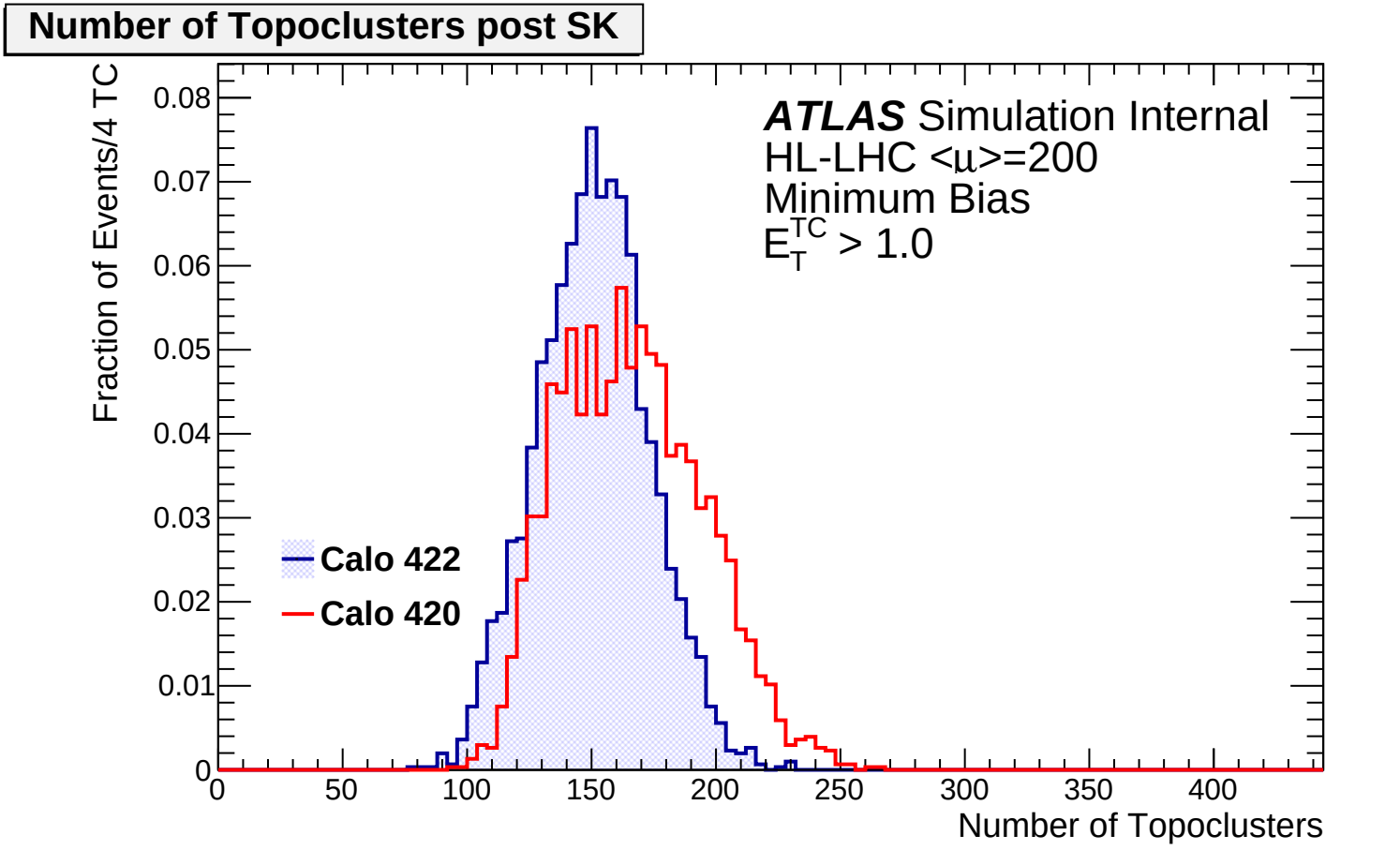

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.5
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400

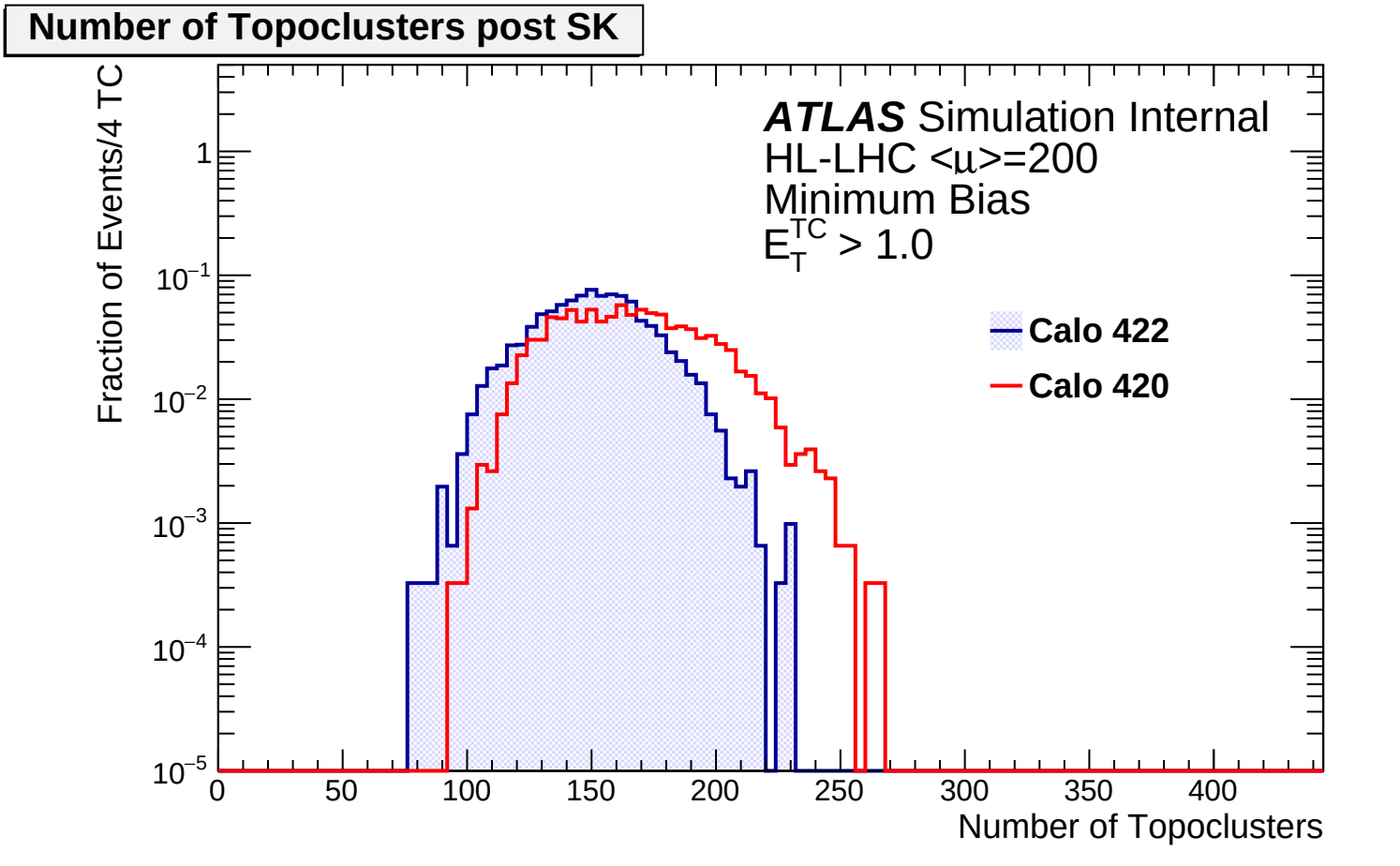
Cumulative Number of Topoclusters post SK

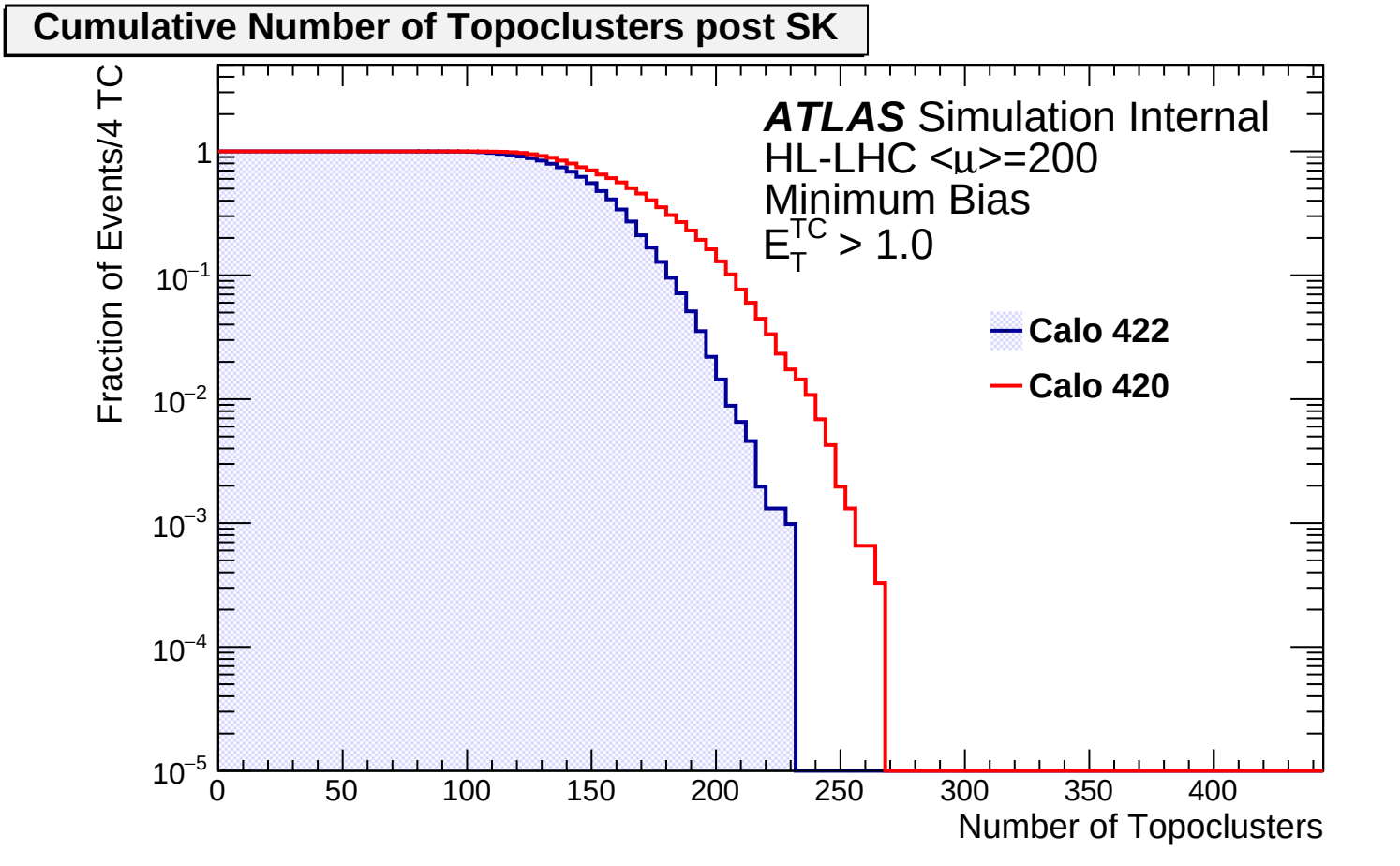


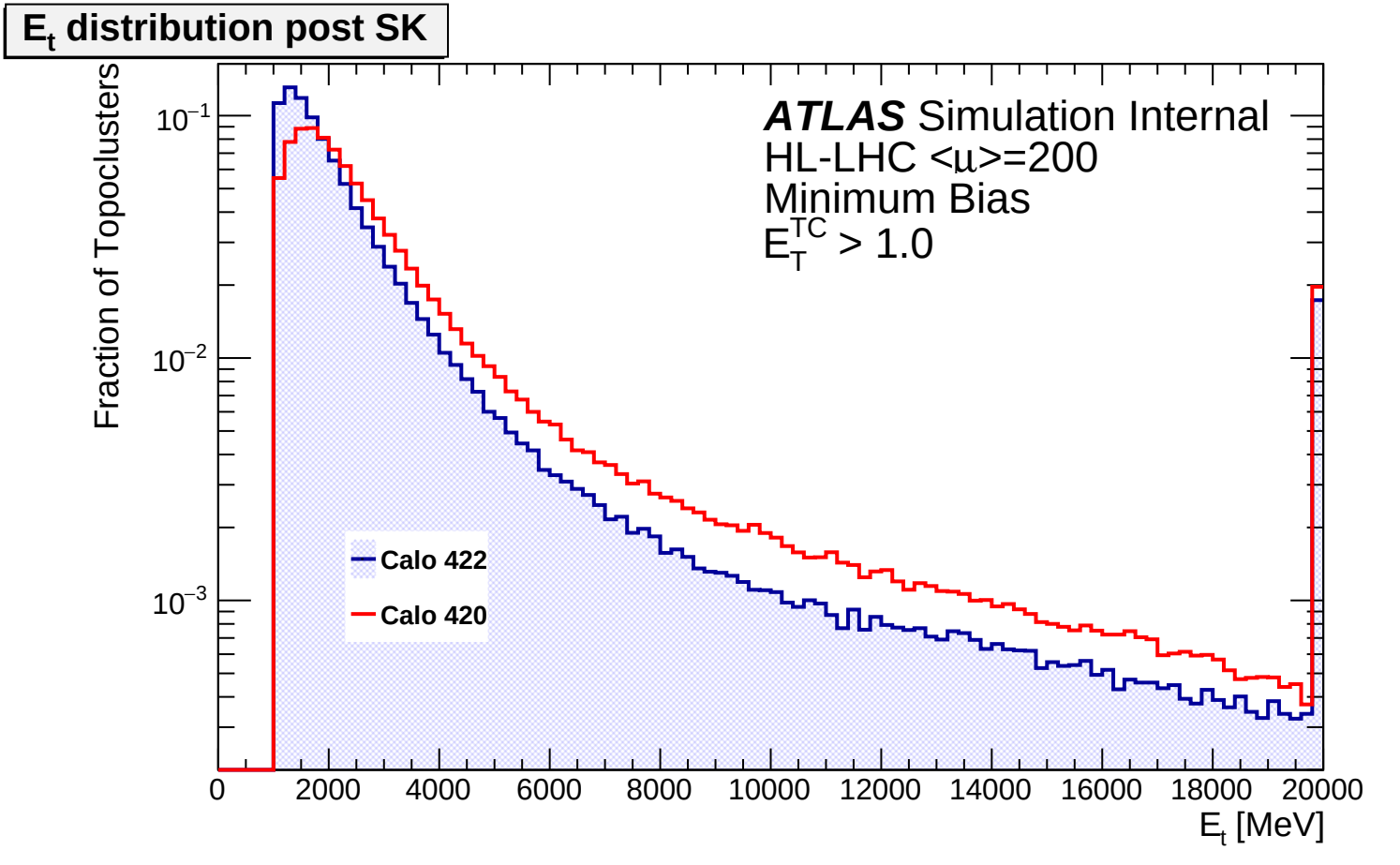

E_t distribution post SK
Fraction of Topoclusters
10^{-1}
10^{-2}
10^{-3}
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 0.5$
Calo 422
Calo 420
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
E_t [MeV]


Average number of topoclusters as function of η post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.5
Calo 422
Calo 420
Number of topoclusters/# events
η
0
2
4
6
8
10
12
14
16
18
20
22
24
−4
−3
−2
−1
0
1
2
3
4

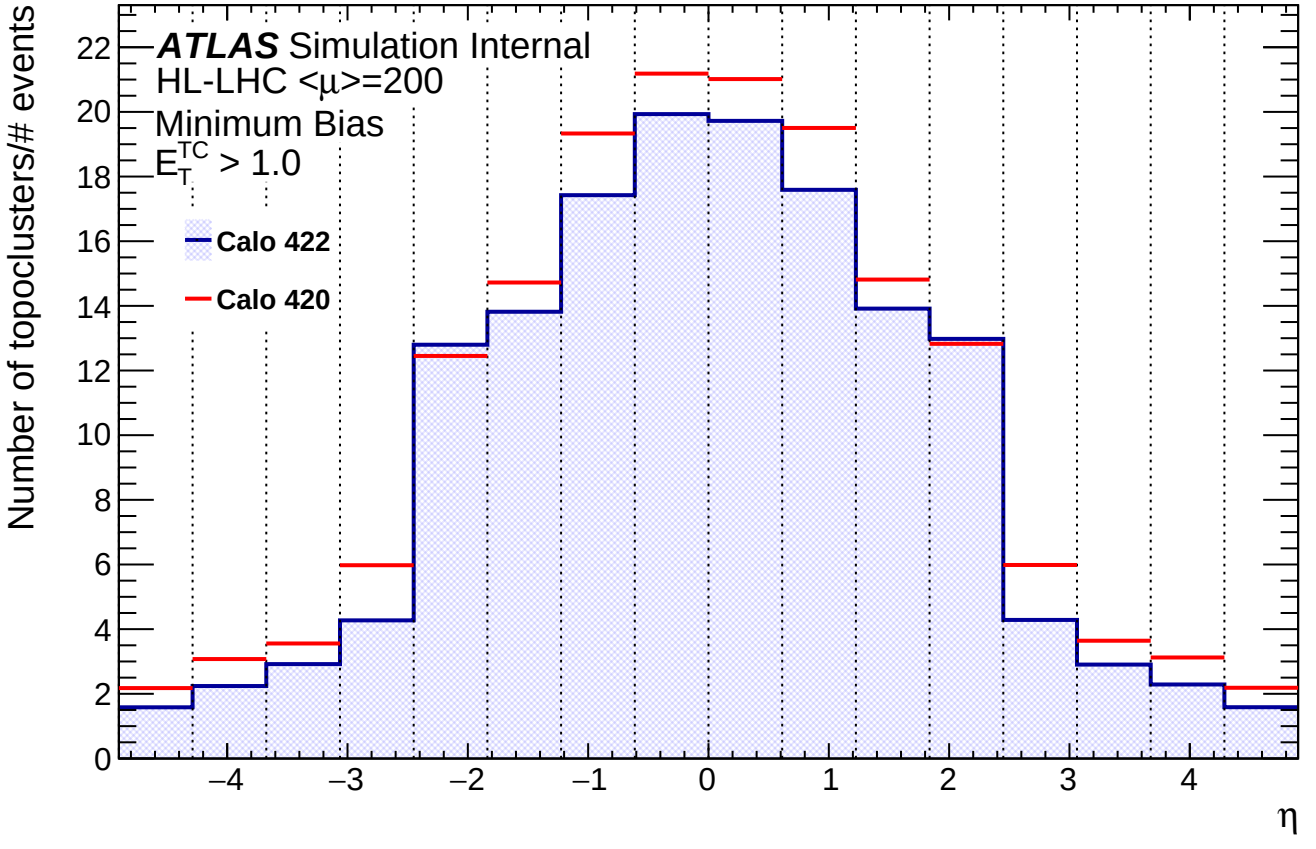

Number of Topoclusters post SK
Fraction of Events/4 TC
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
50
100
150
200
250
300
350
400
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 1.0
Calo 422
Calo 420

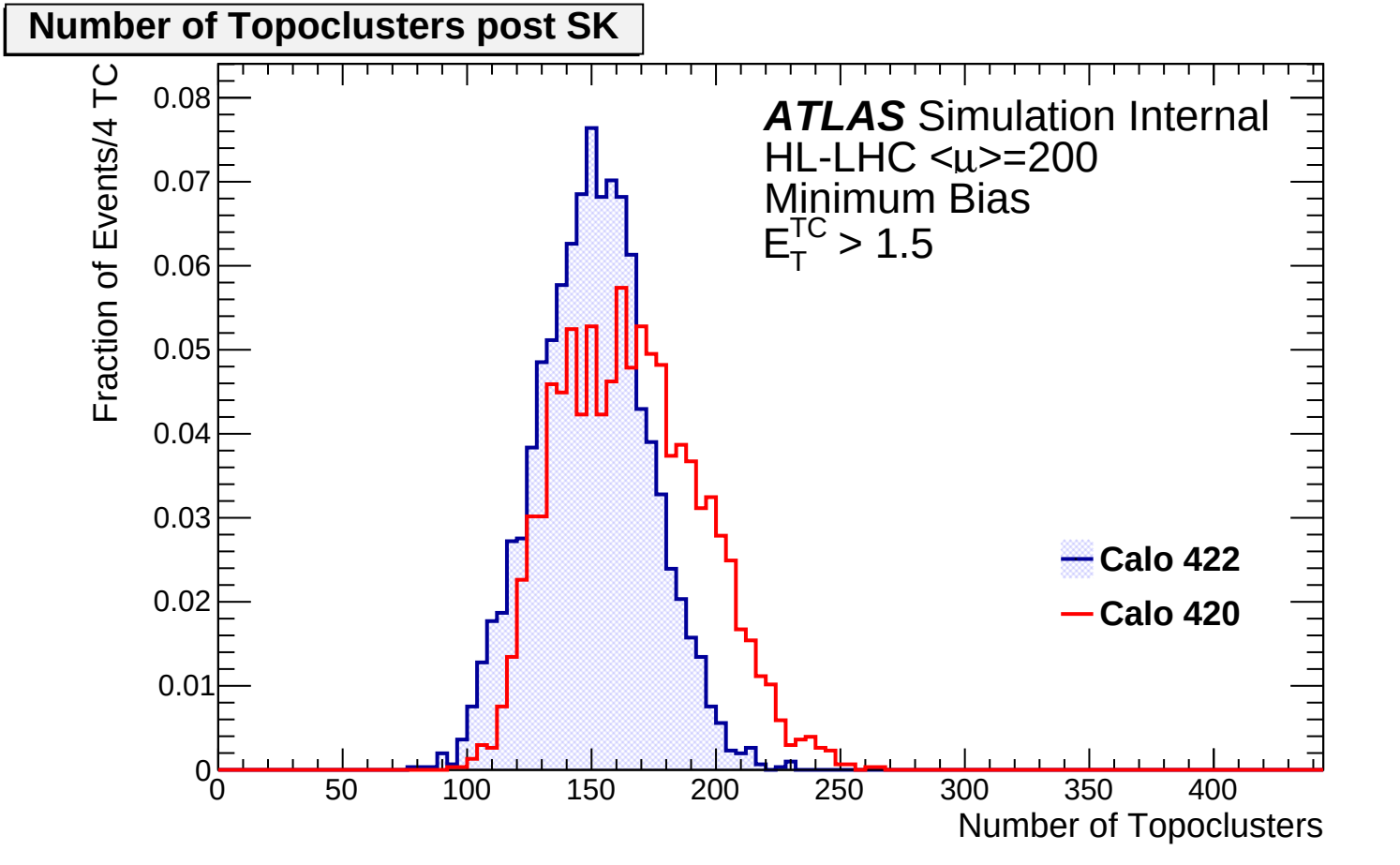

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400

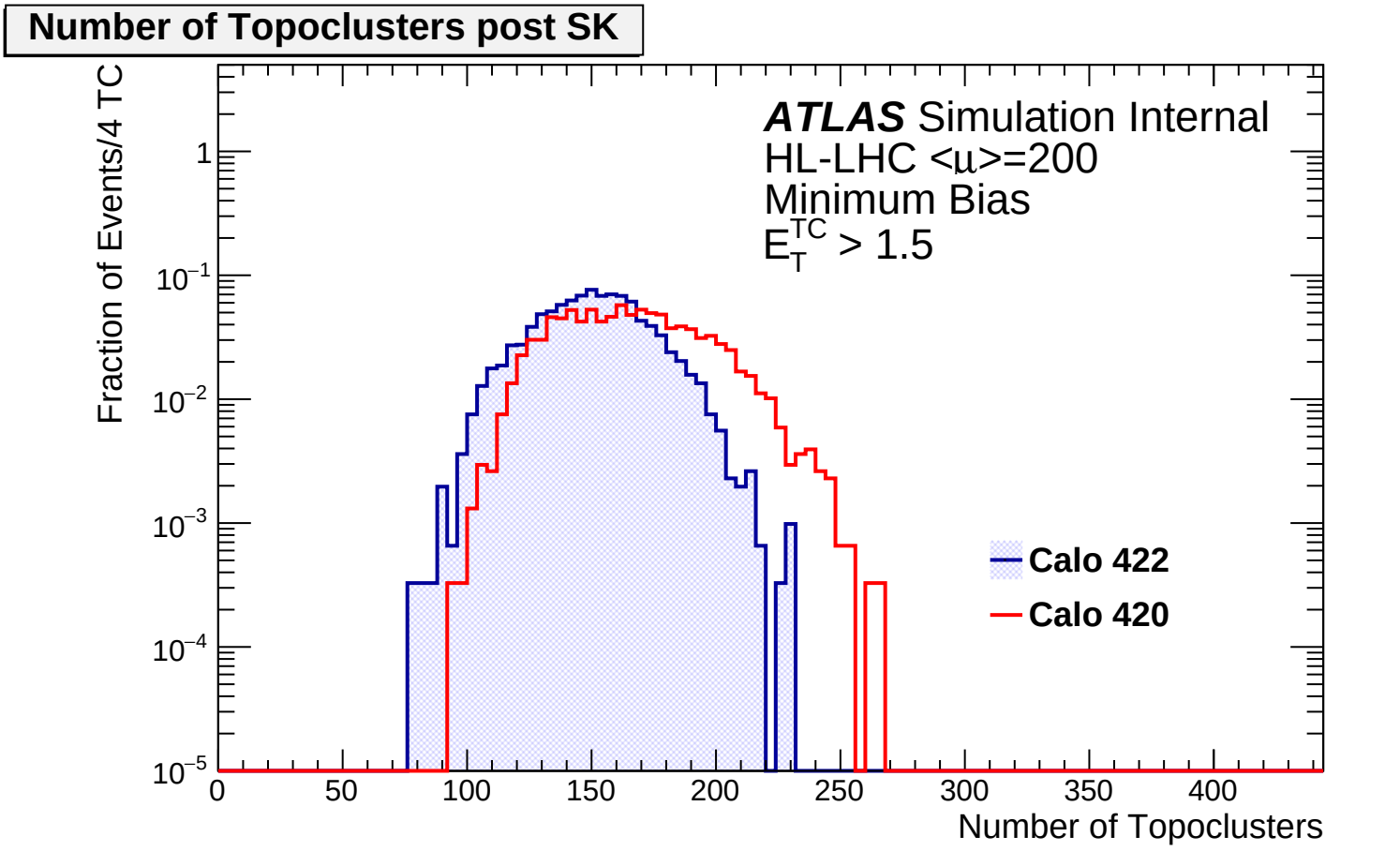

Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400

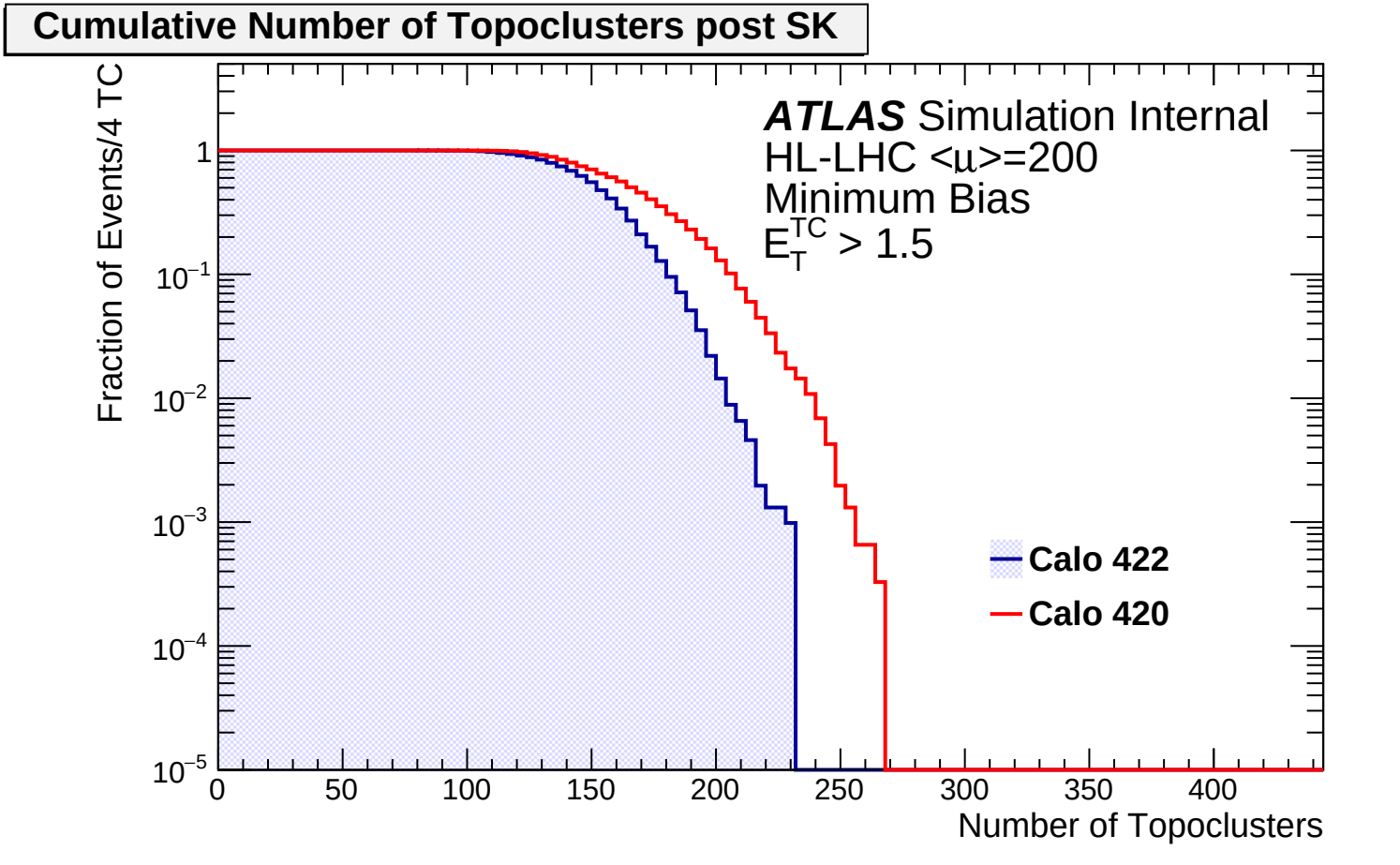

E_t distribution post SK
Fraction of Topoclusters
10^{-1}
10^{-2}
10^{-3}
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 1.0$
Calo 422
Calo 420
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
E_t [MeV]

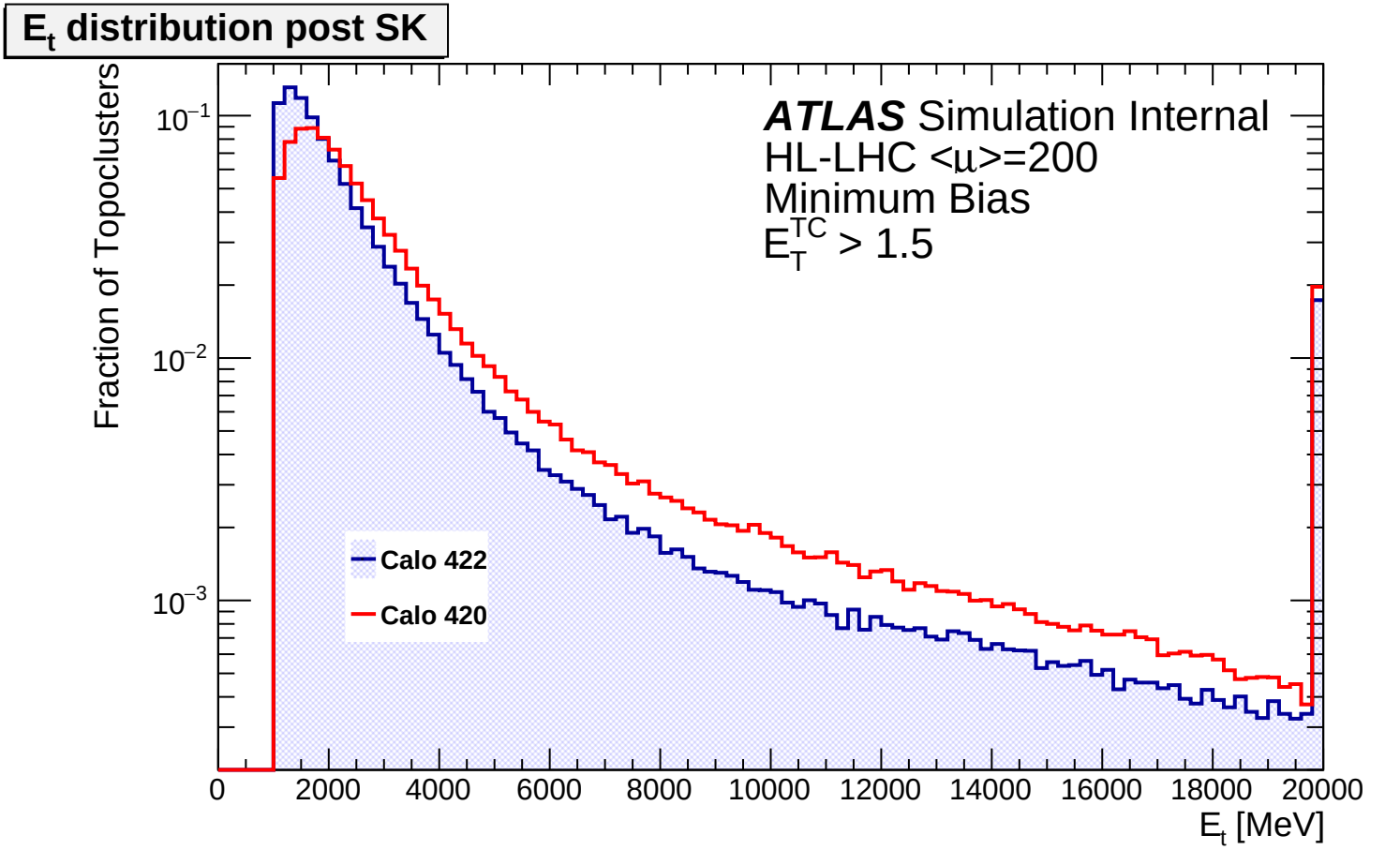
Average number of topoclusters as function of η post SK



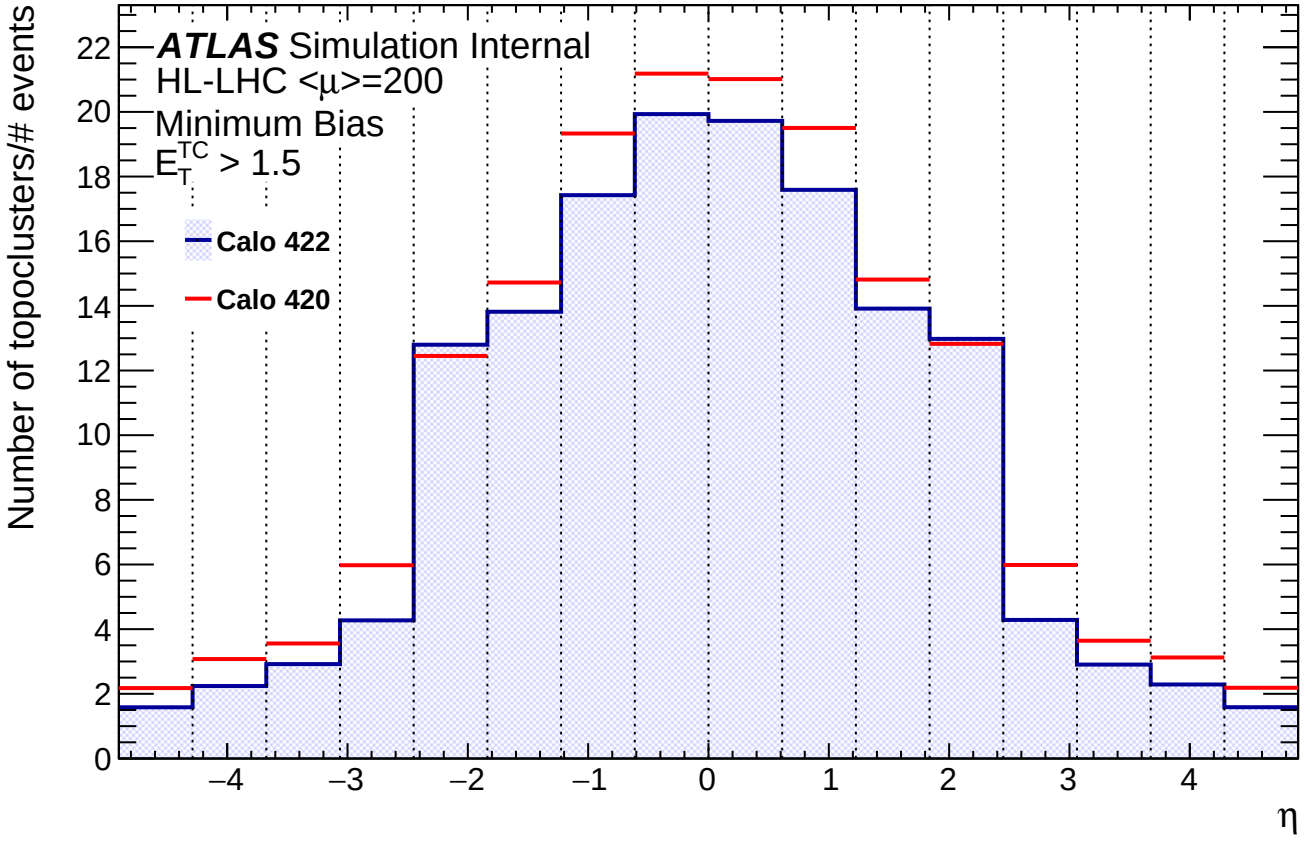

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0
50
100
150
200
250
300
350
400

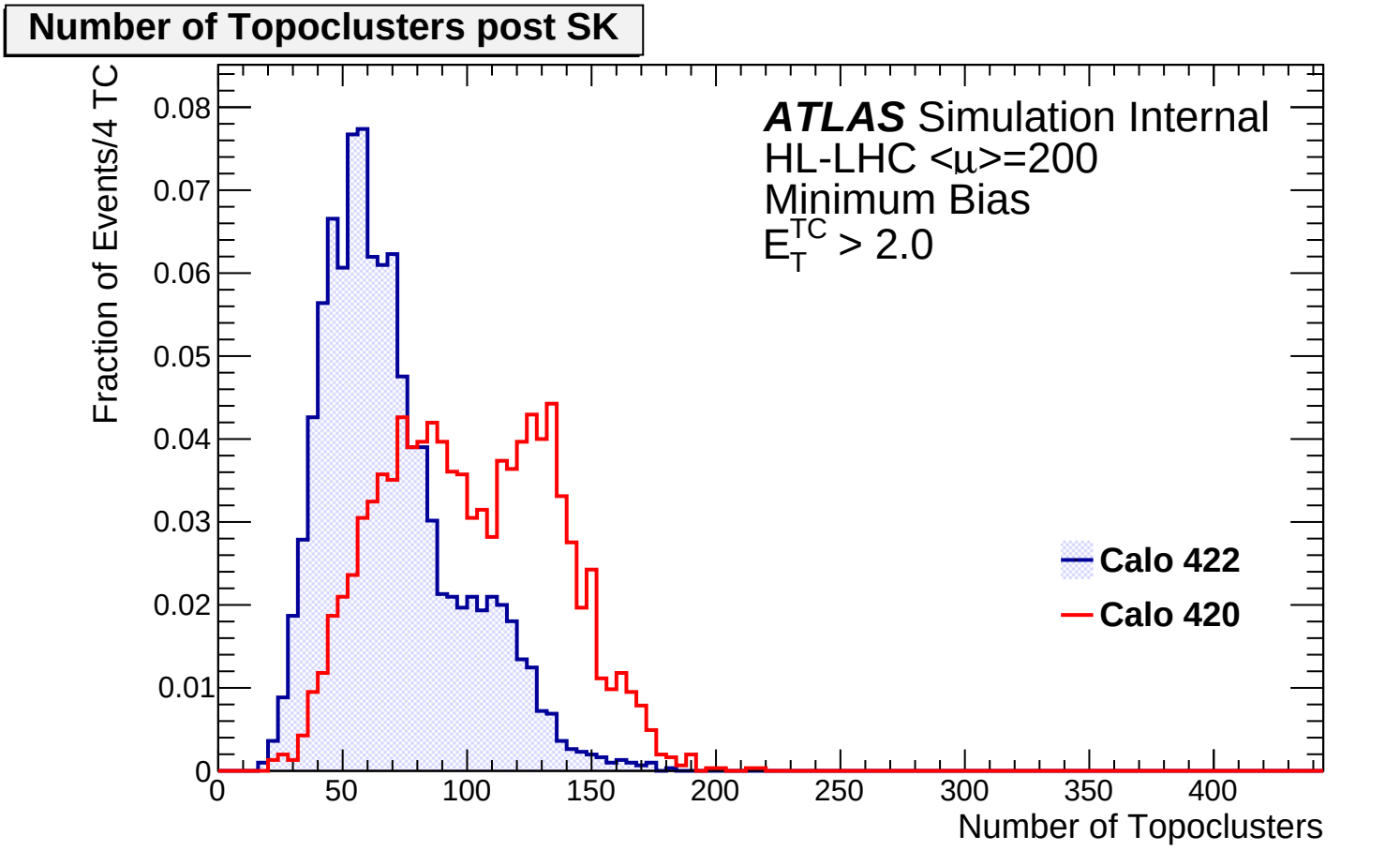

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400


Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400

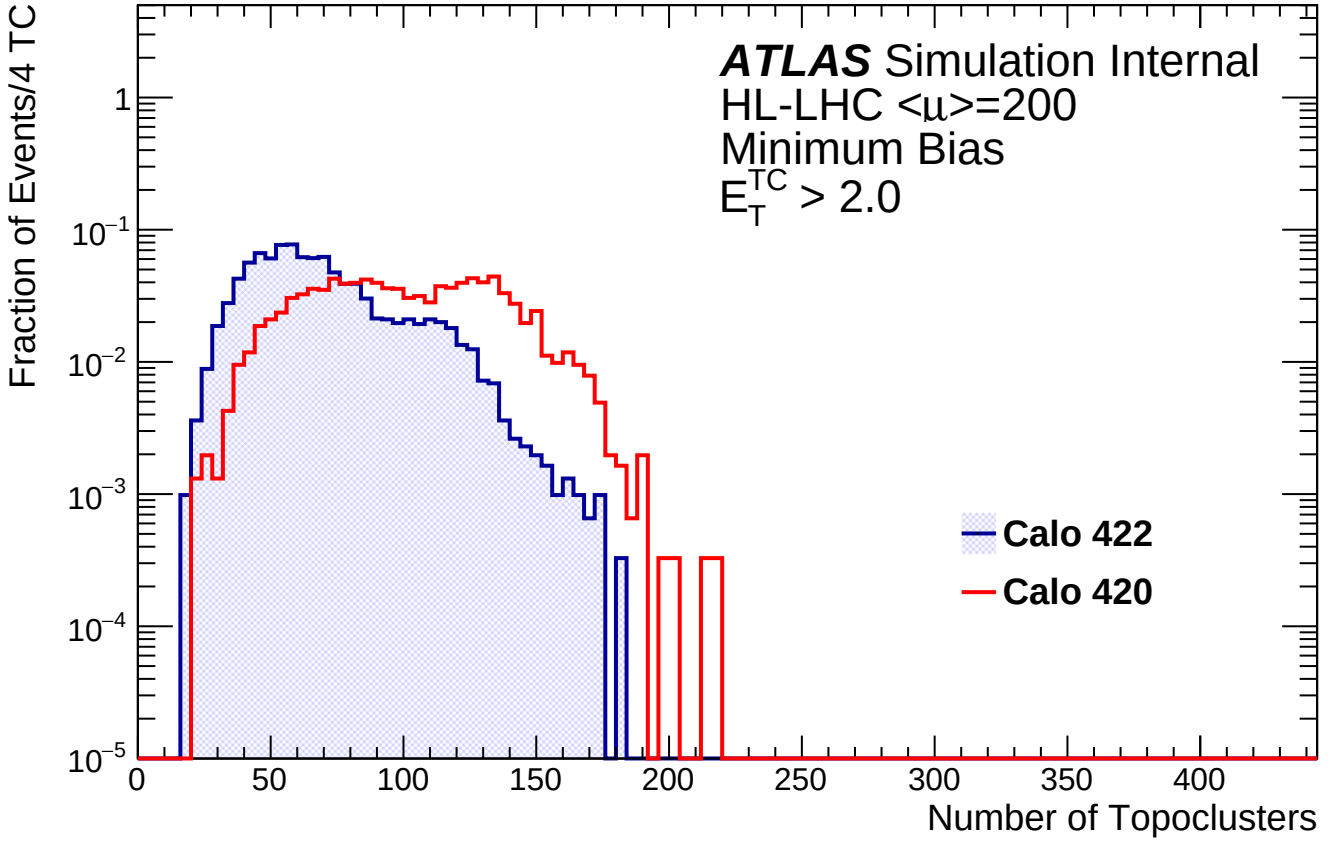

E_t distribution post SK
Fraction of Topoclusters
10^{-1}
10^{-2}
10^{-3}
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 1.5$
Calo 422
Calo 420
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
E_t [MeV]

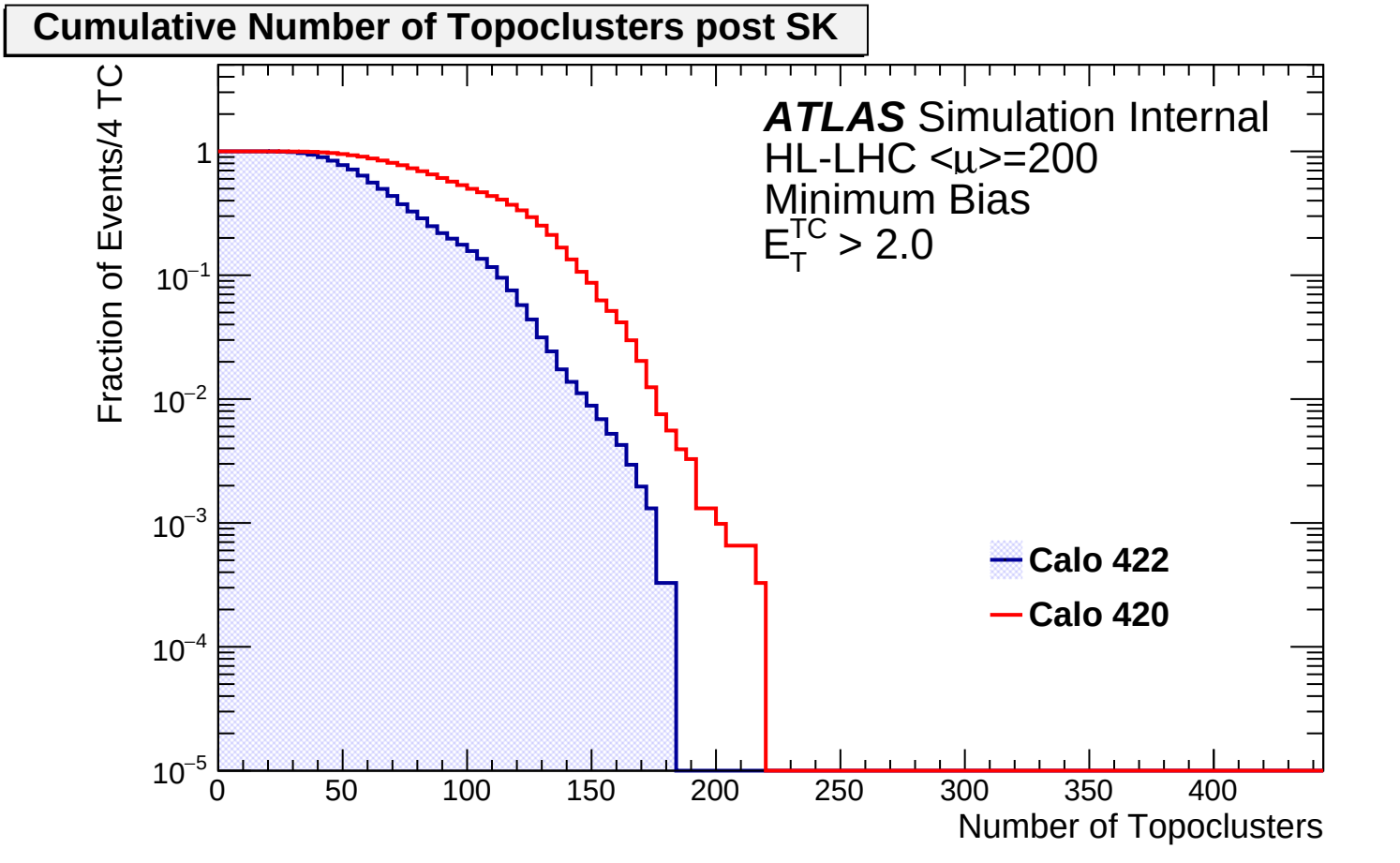
Average number of topoclusters as function of η post SK

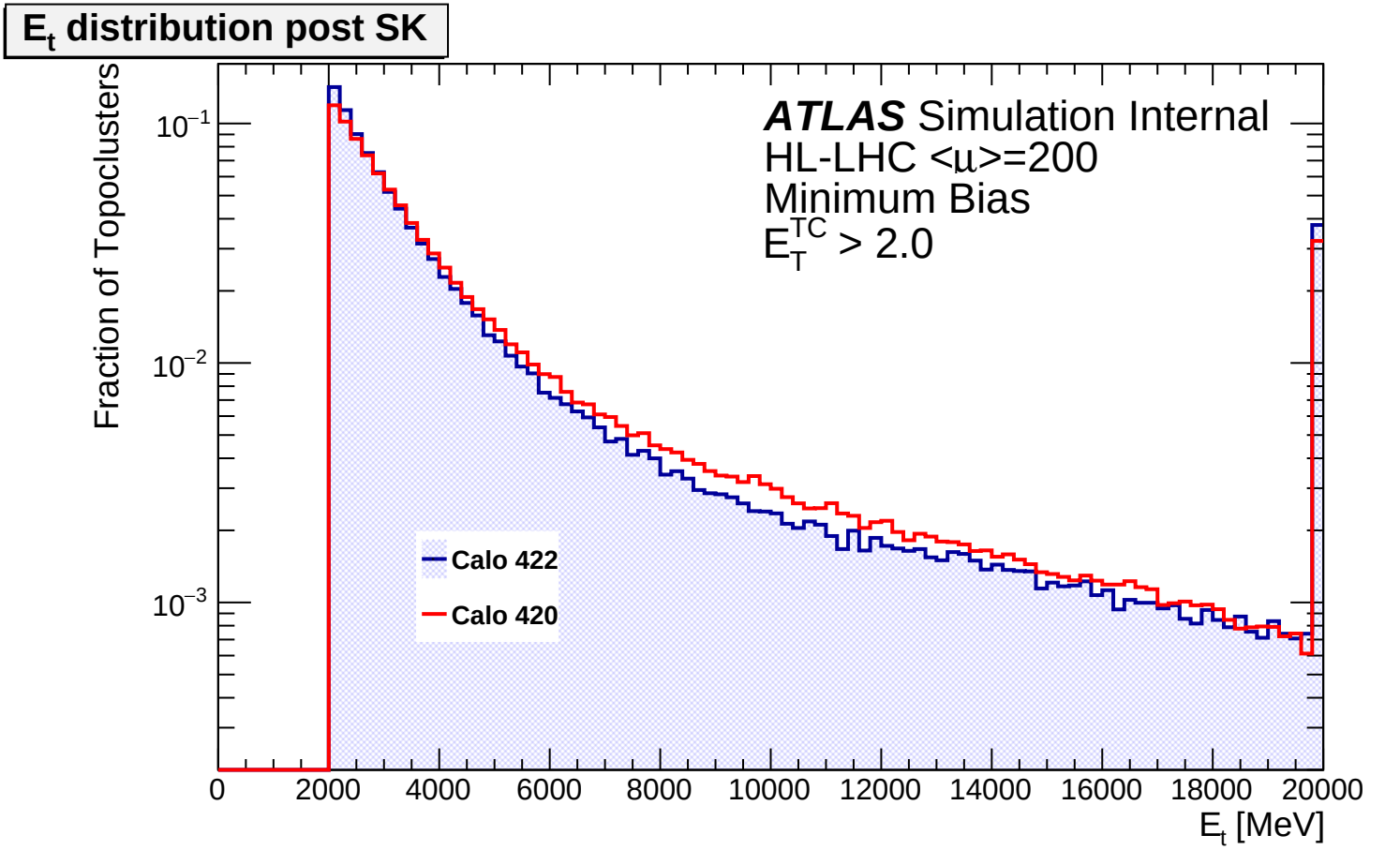



Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 2.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0
50
100
150
200
250
300
350
400

Number of Topoclusters post SK




Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 2.0
Calo 422
Calo 420
Fraction of Events/4 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
50
100
150
200
250
300
350
400


E_t distribution post SK
Fraction of Topoclusters
10^{-1}
10^{-2}
10^{-3}
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 2.0
Calo 422
Calo 420
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
E_t [MeV]

Average number of topoclusters as function of η post SK