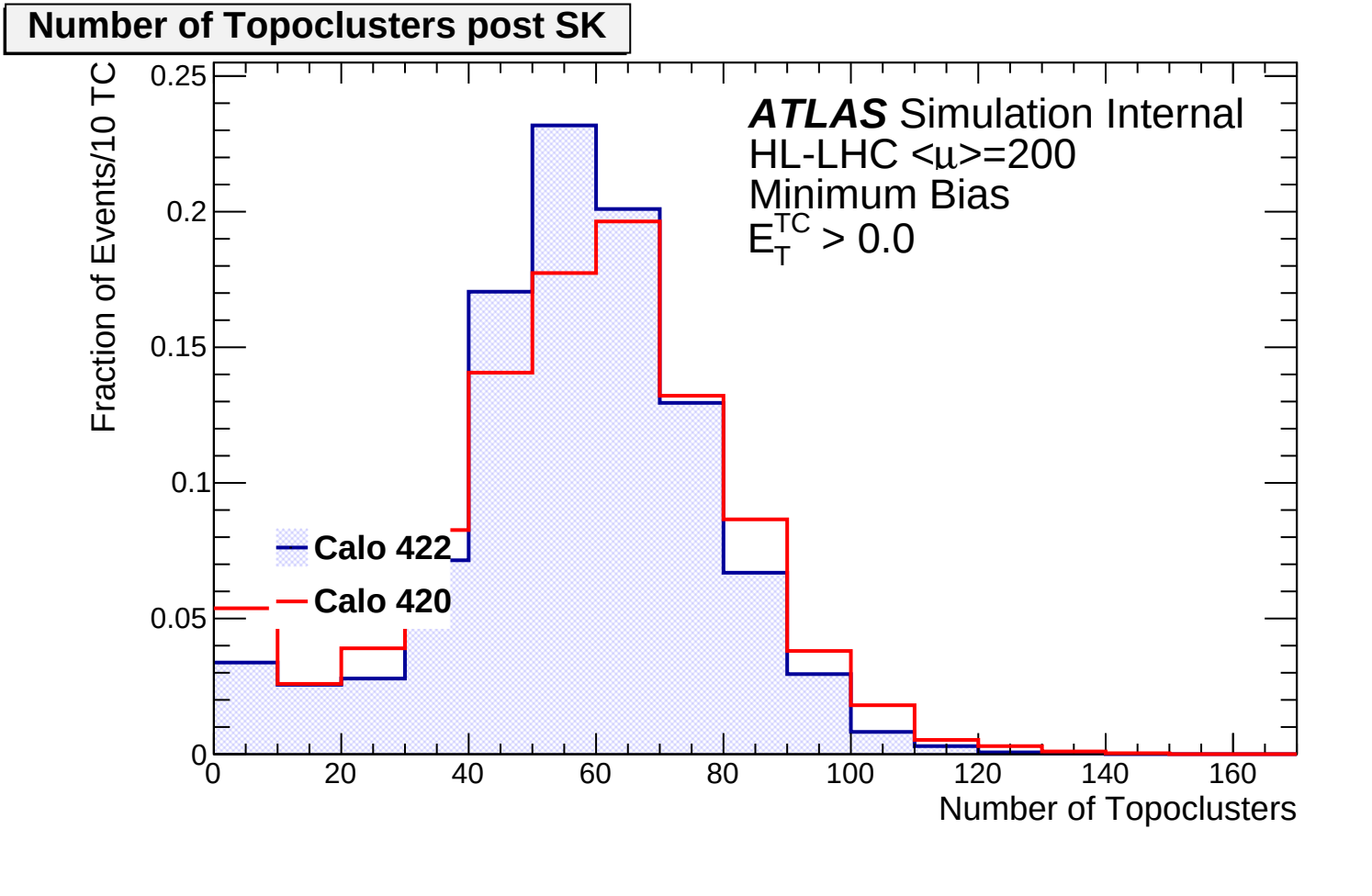
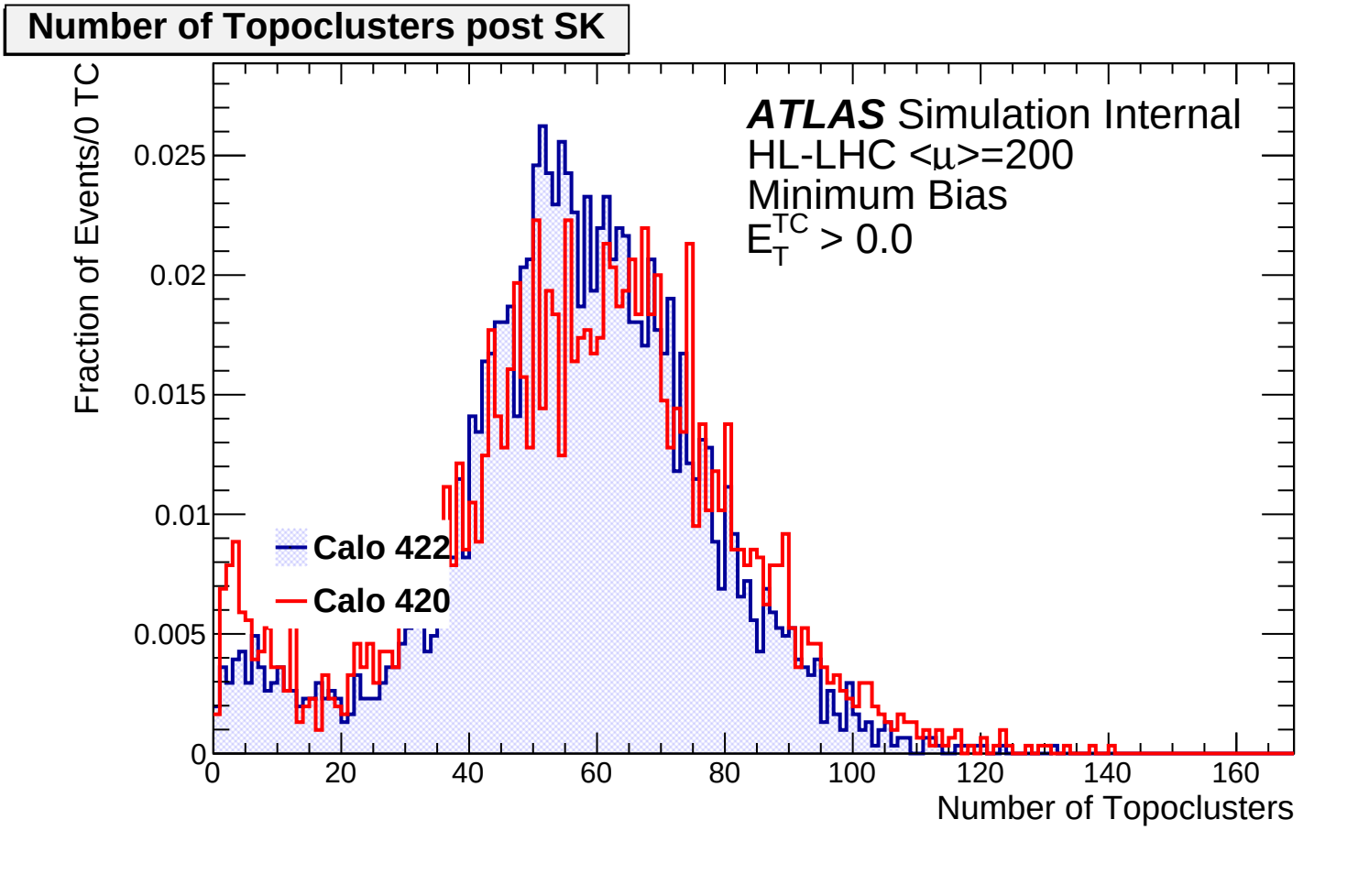
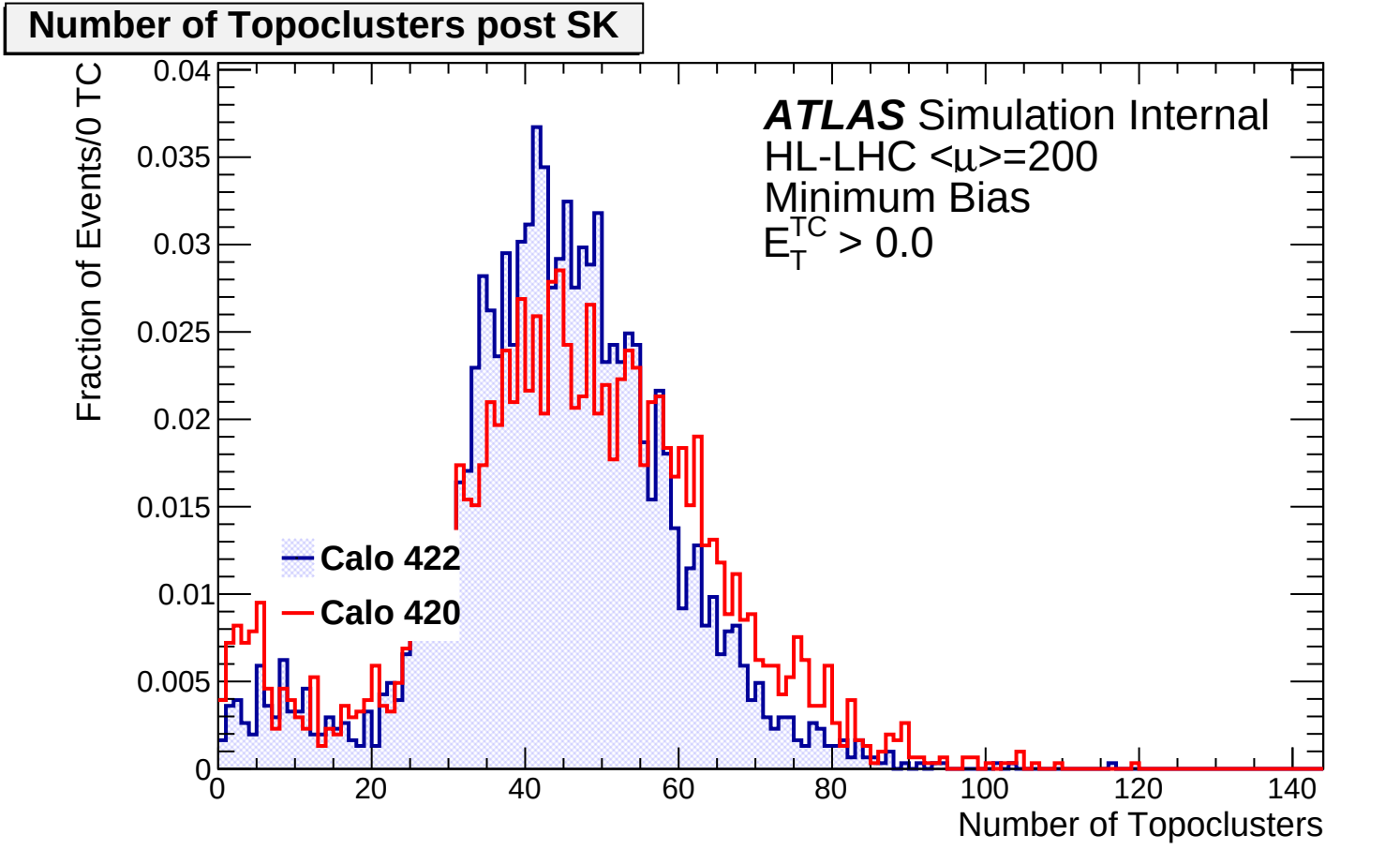
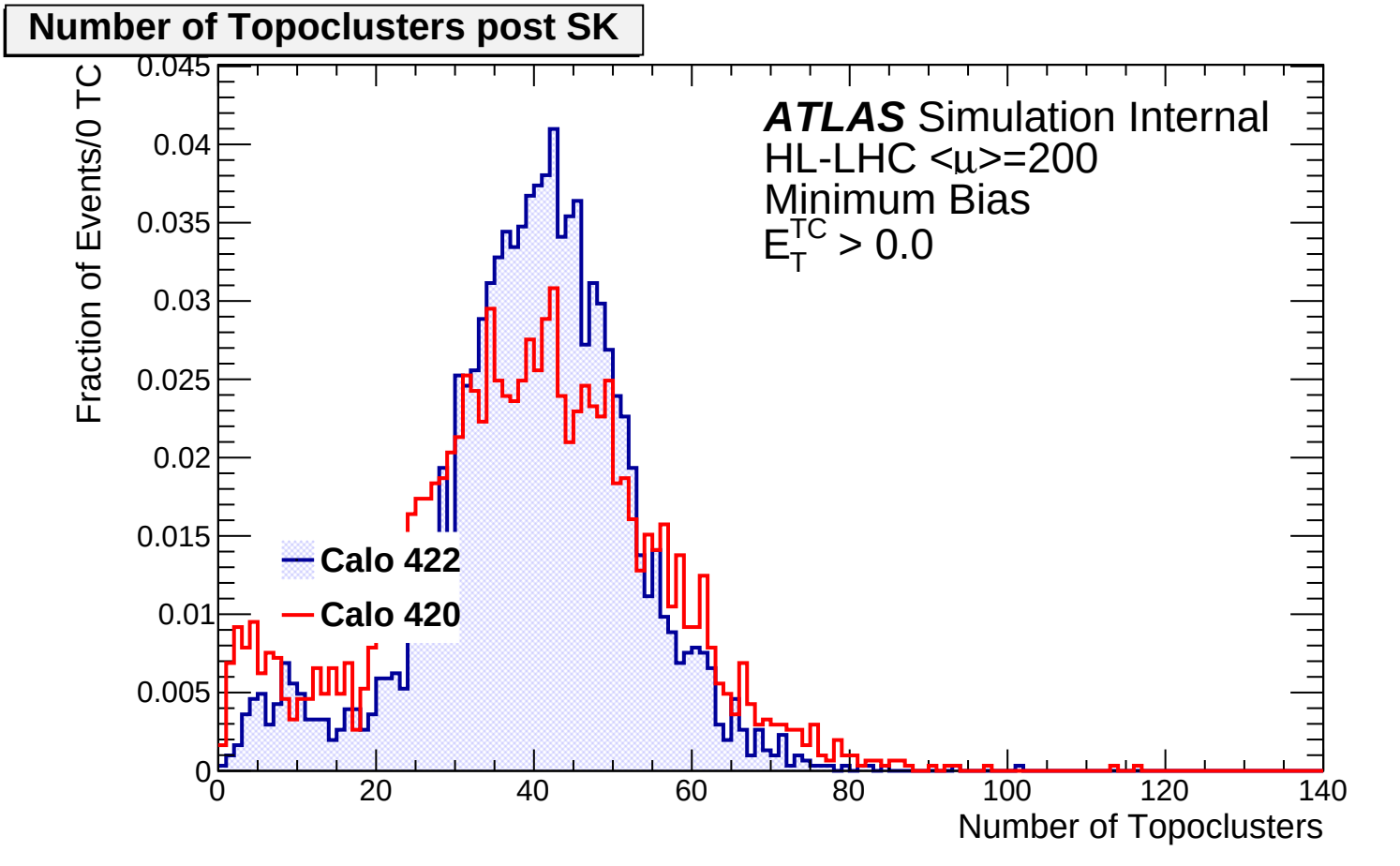
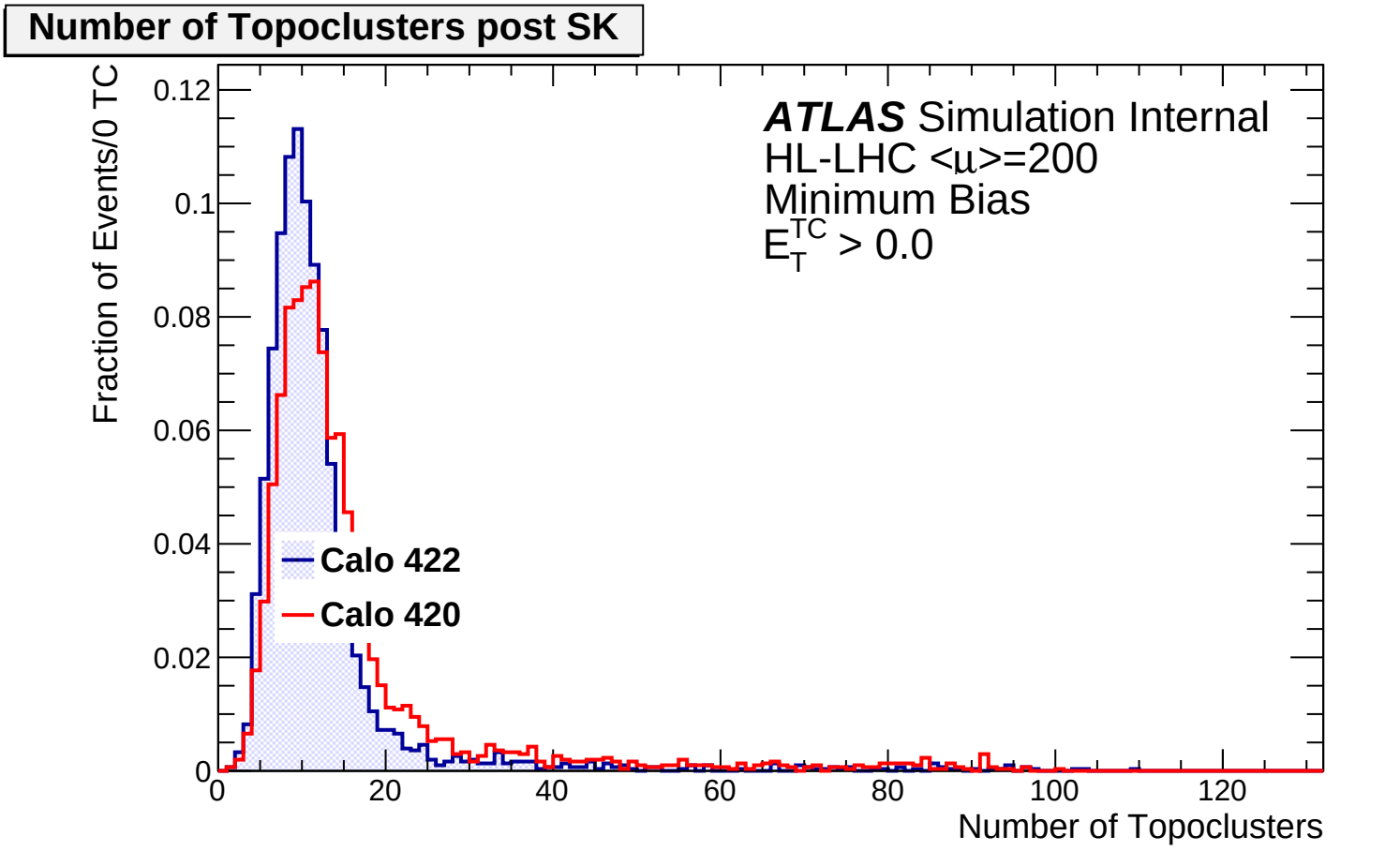
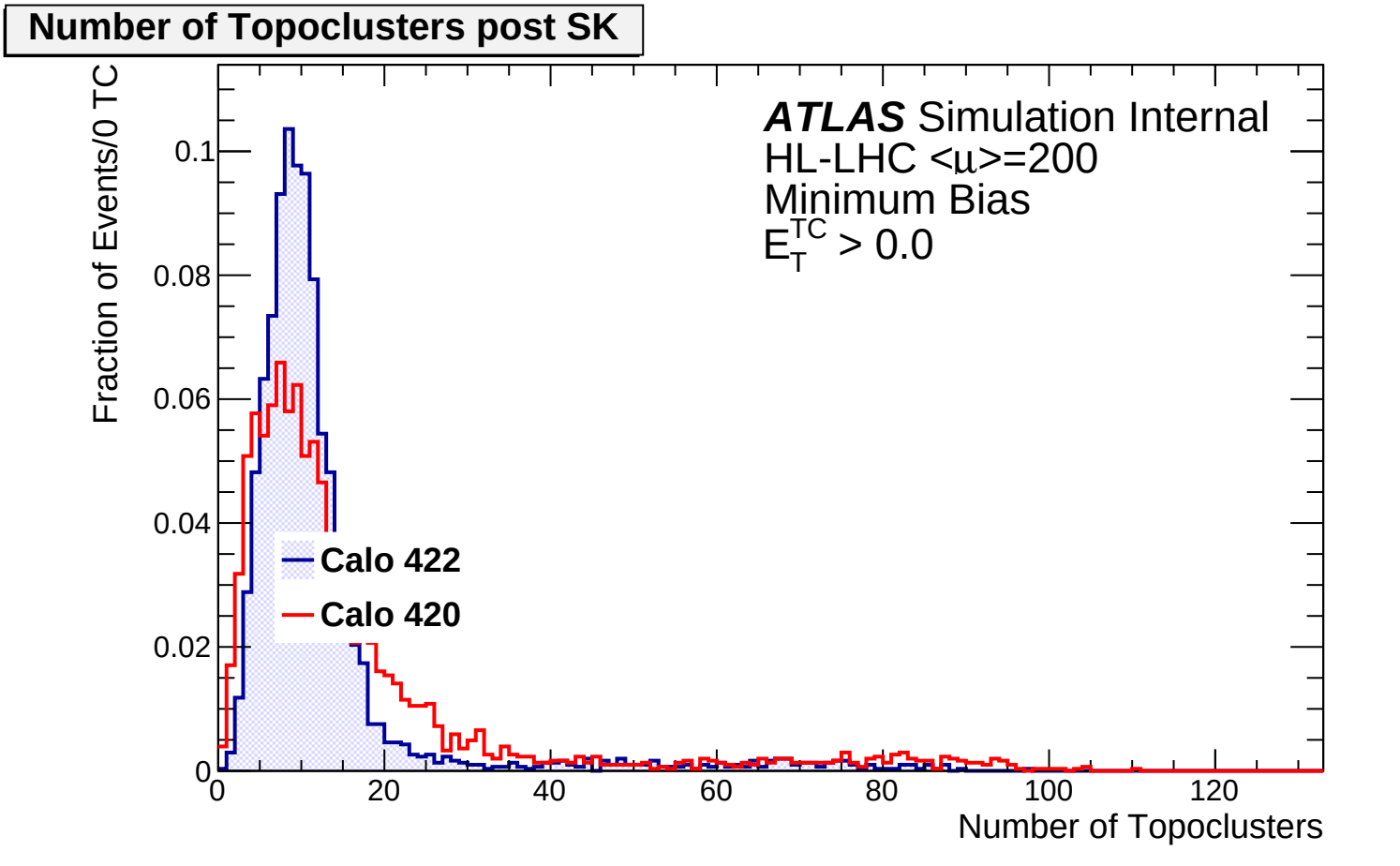

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/10 TC
Number of Topoclusters
0
0.05
0.1
0.15
0.2
0.25
0
20
40
60
80
100
120
140
160


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/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0
20
40
60
80
100
120
140
160

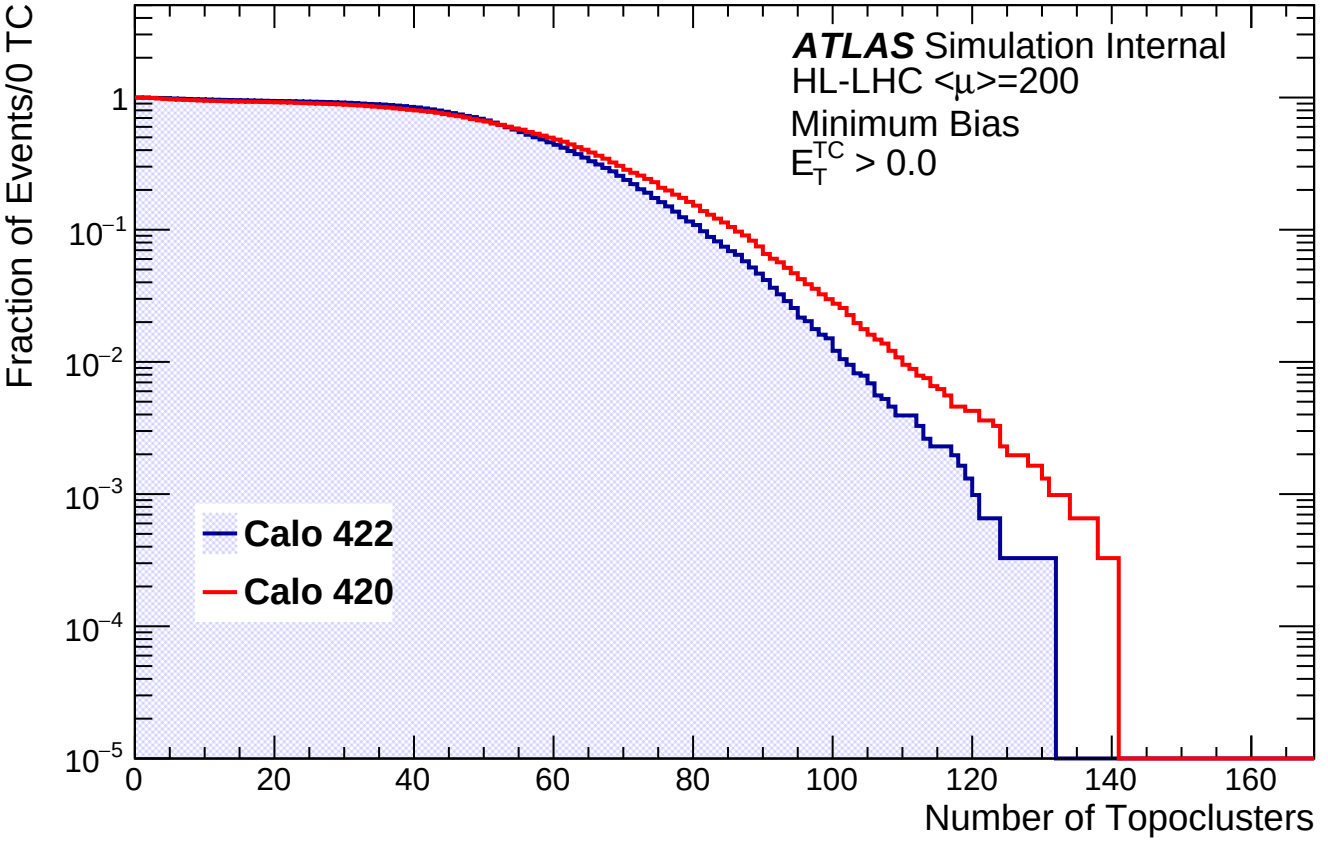

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0
20
40
60
80
100
120
140

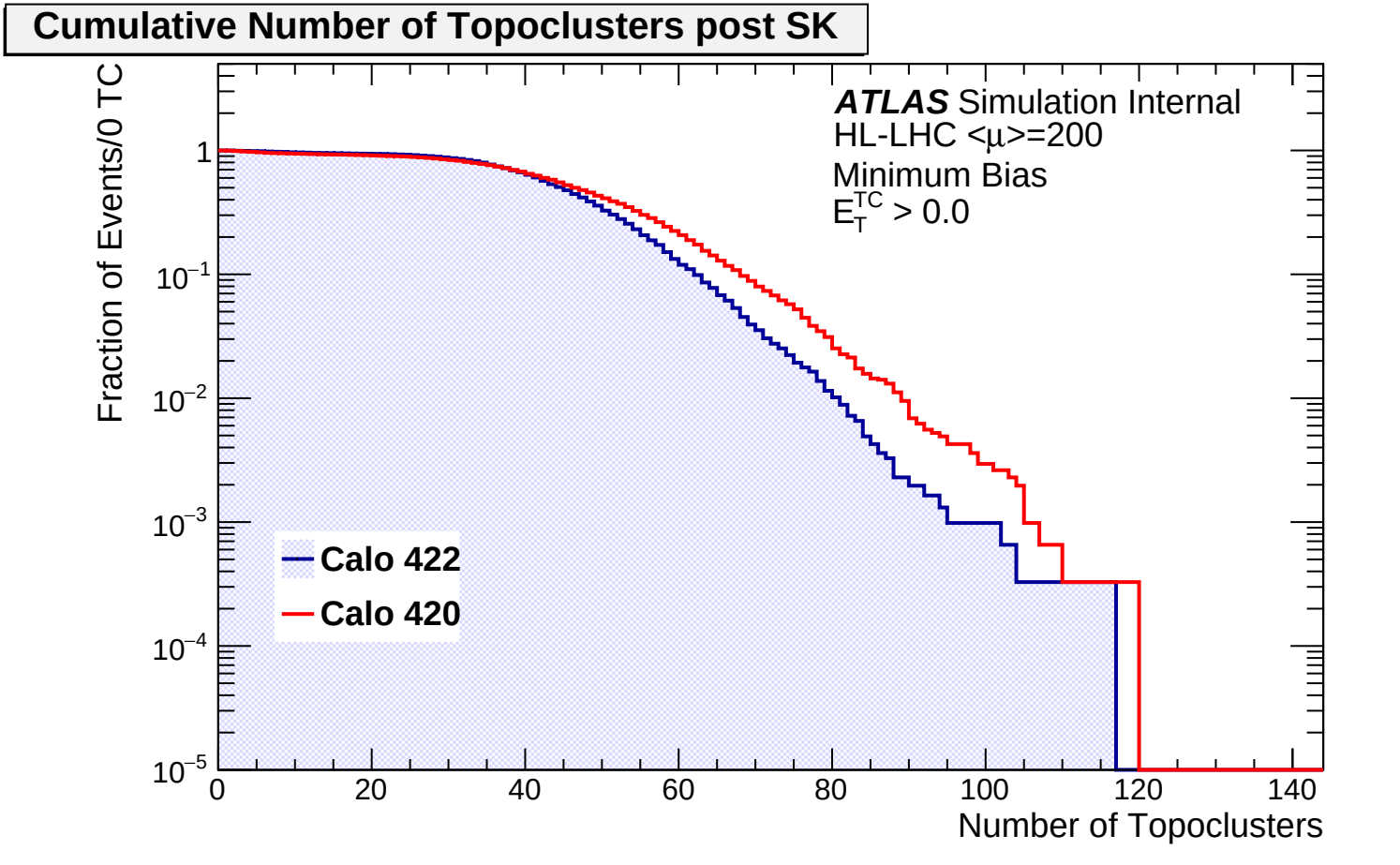

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0
20
40
60
80
100
120
140

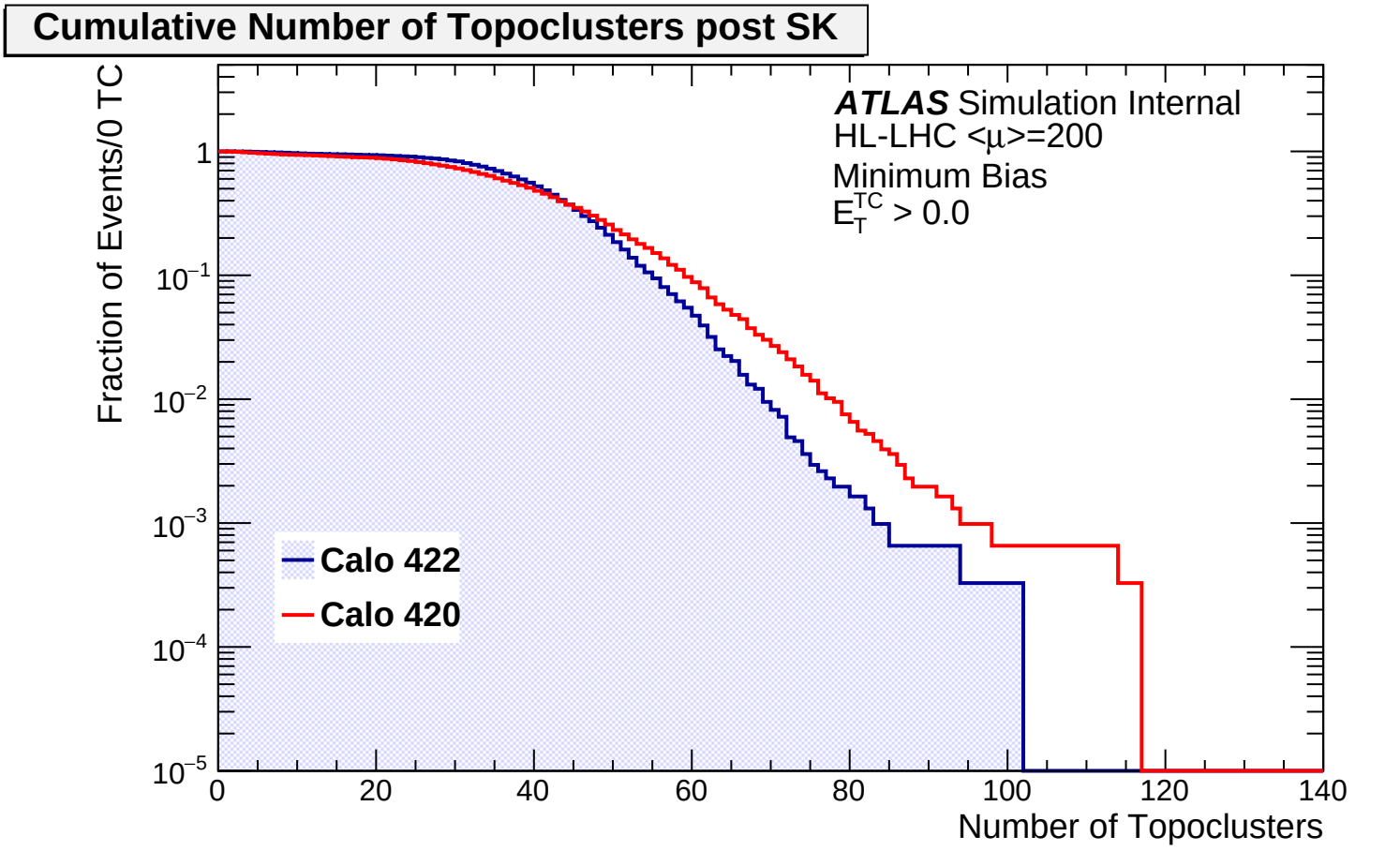

Number of Topoclusters post SK
Fraction of Events/0 TC
0.12
0.1
0.08
0.06
0.04
0.02
0
0
20
40
60
80
100
120
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 0.0
Calo 422
Calo 420


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/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120

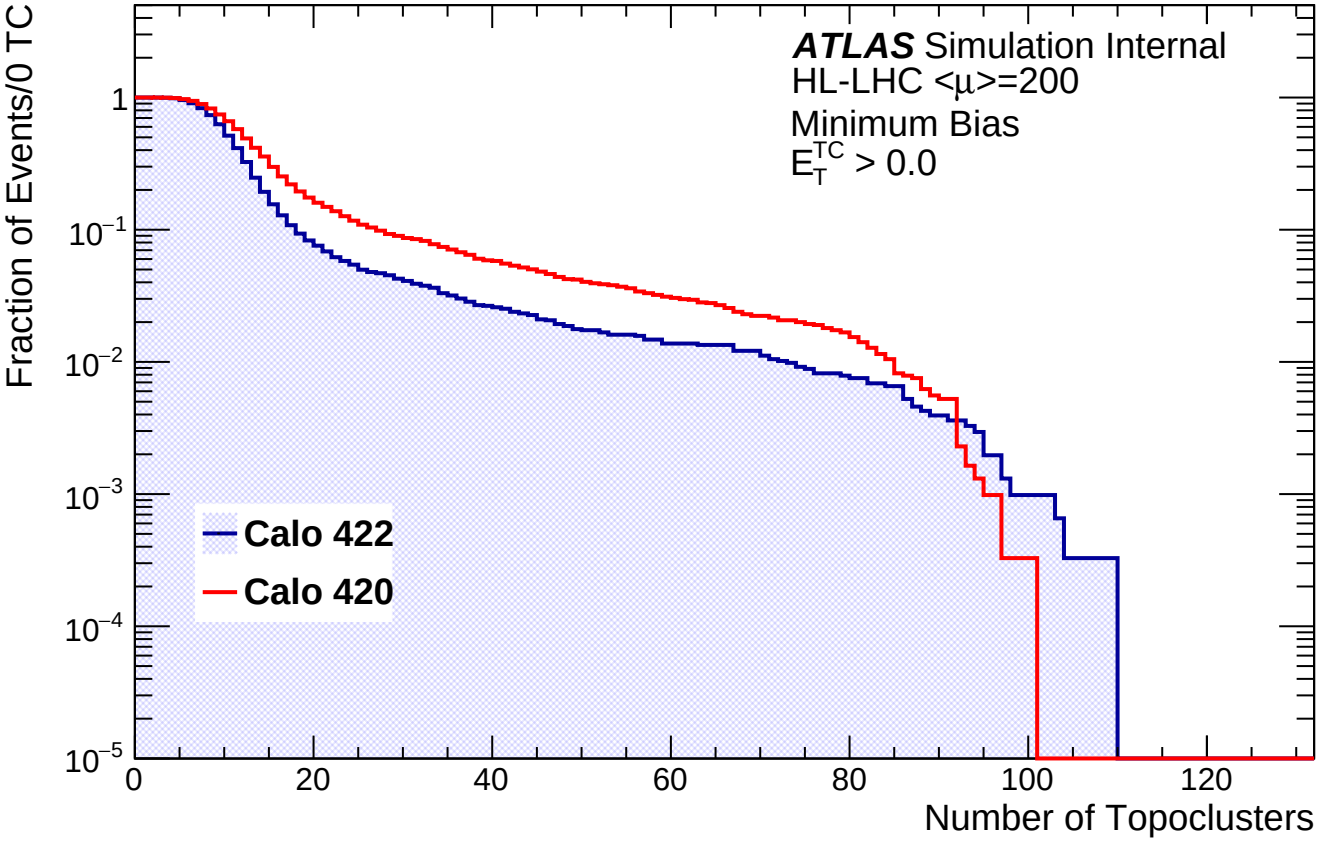
Cumulative Number of Topoclusters post SK



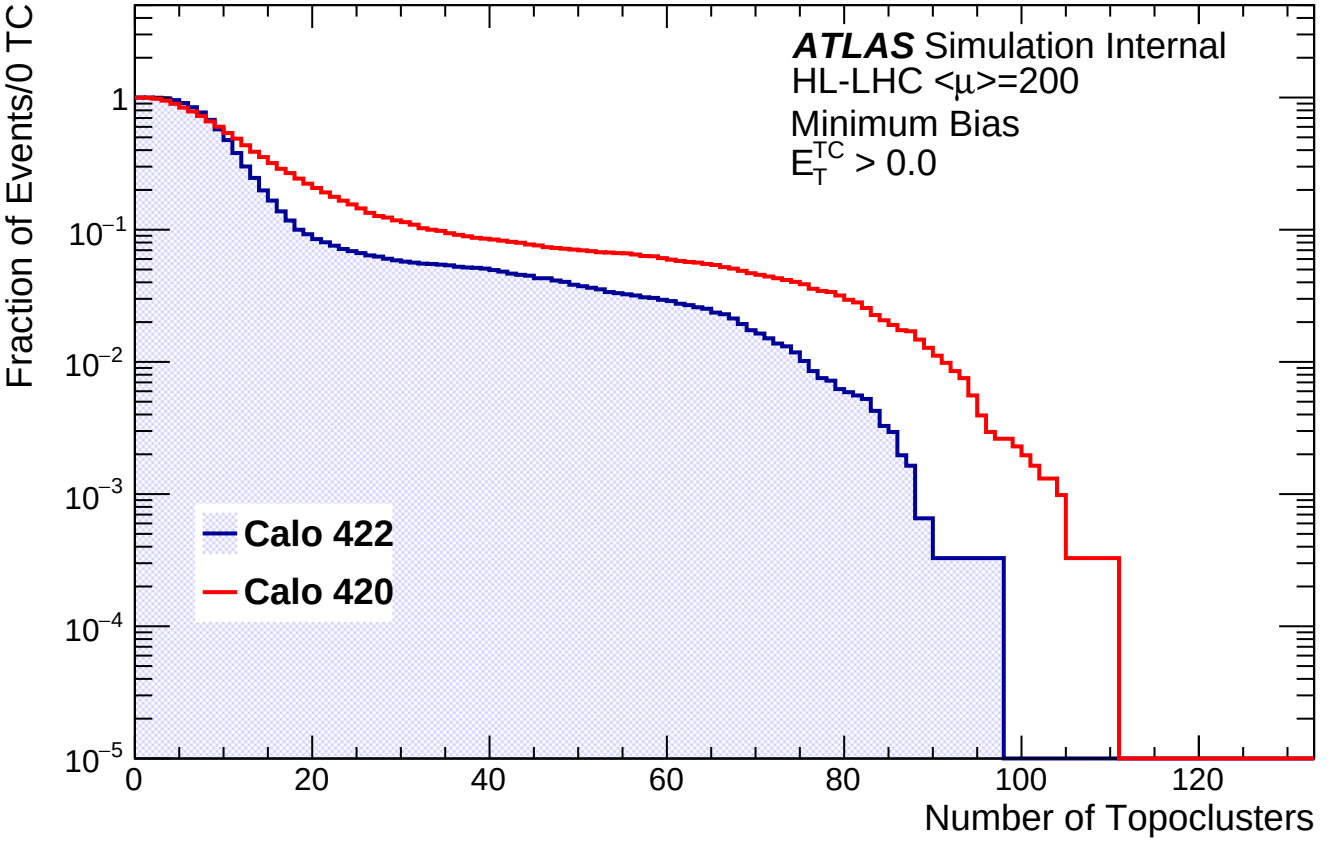

Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140

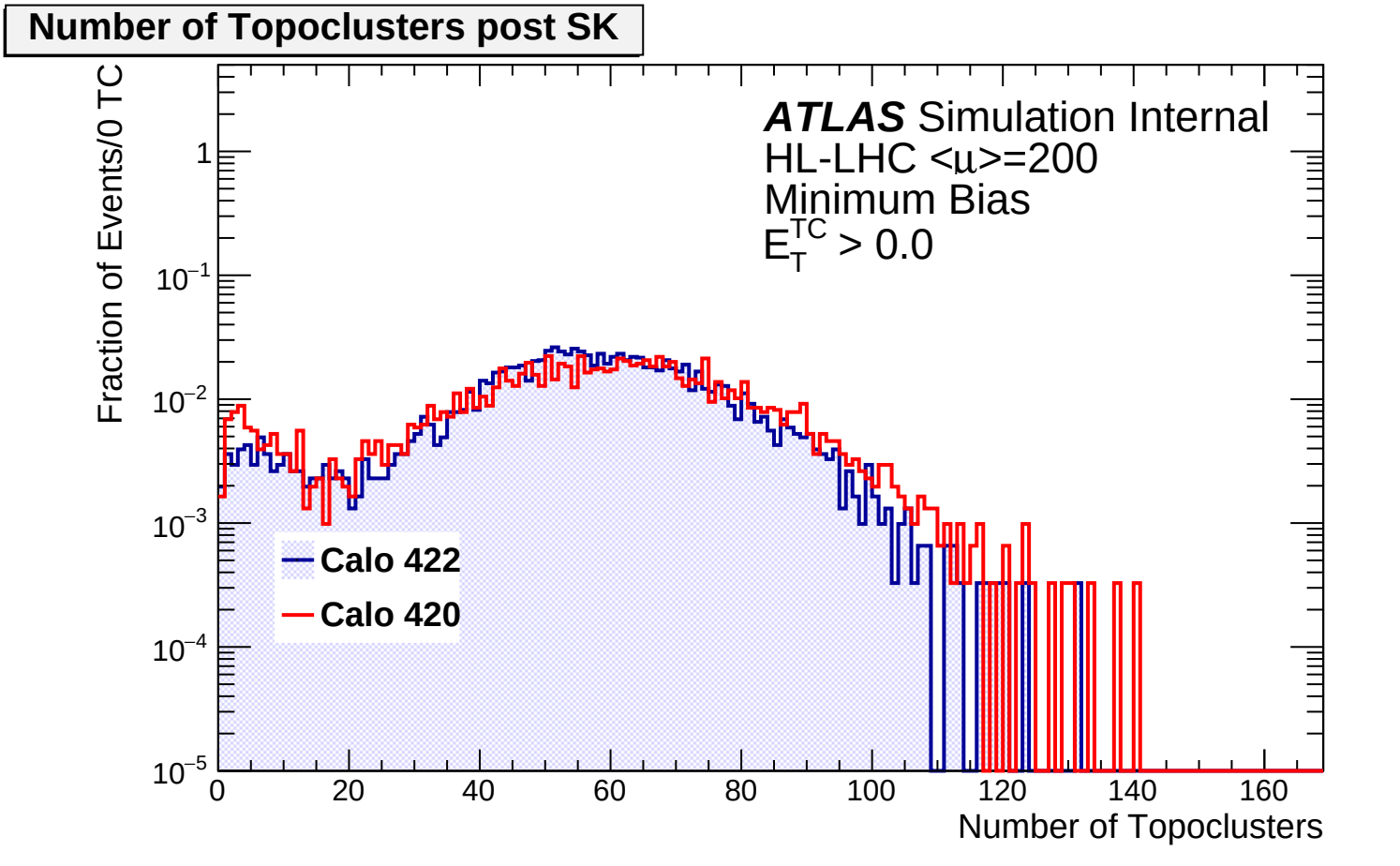

Cumulative Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140

Cumulative Number of Topoclusters post SK

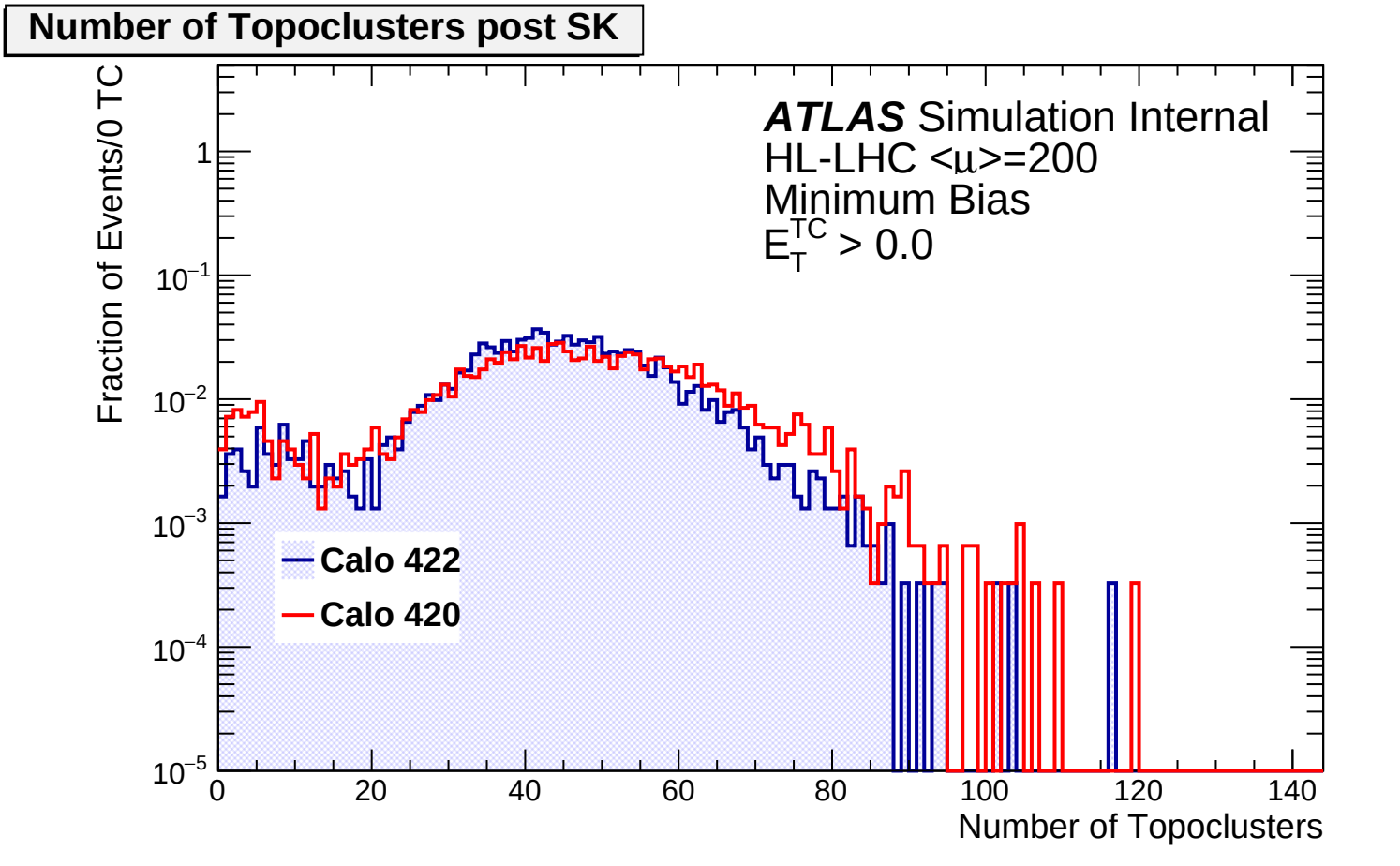


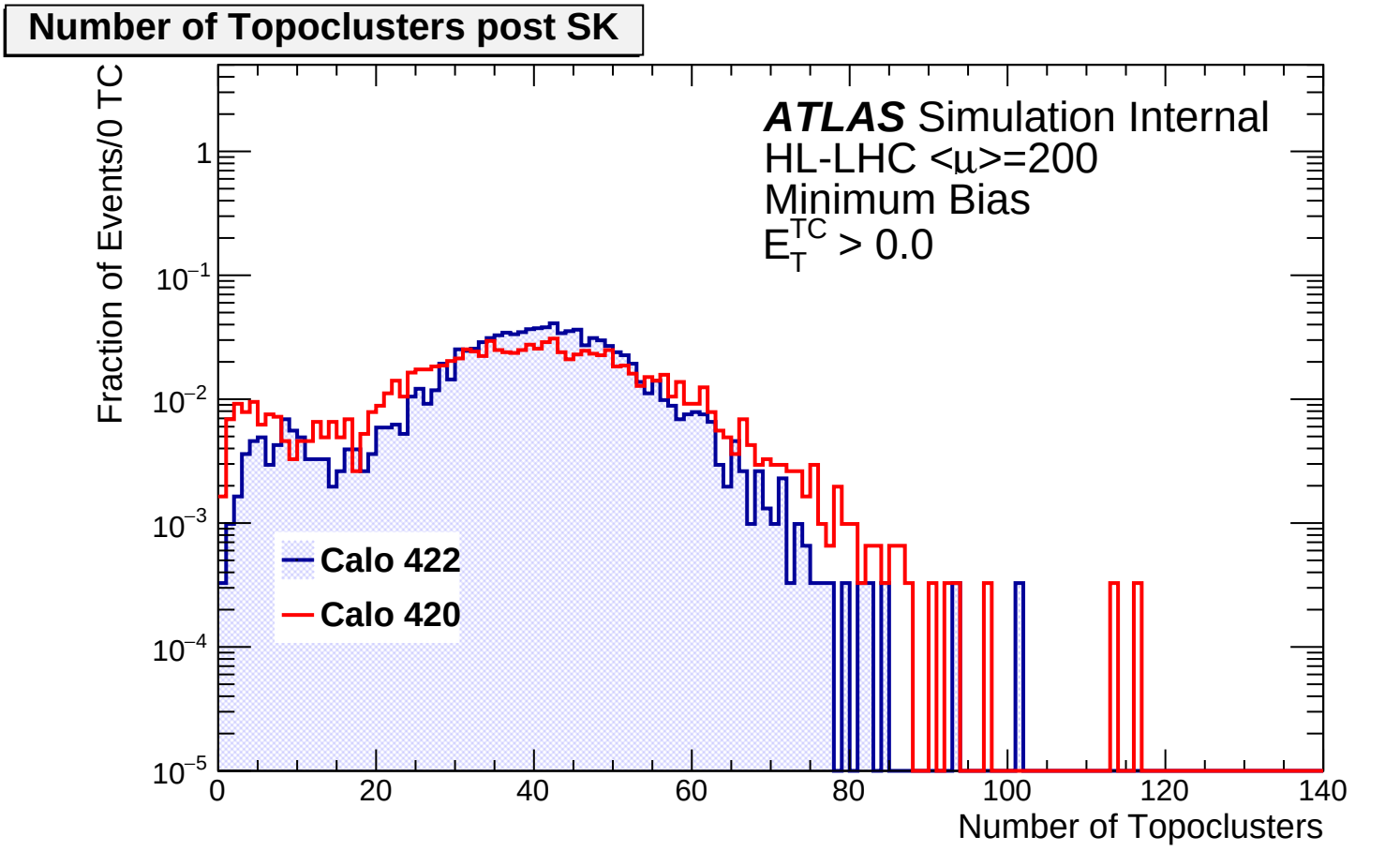
Cumulative Number of Topoclusters post SK



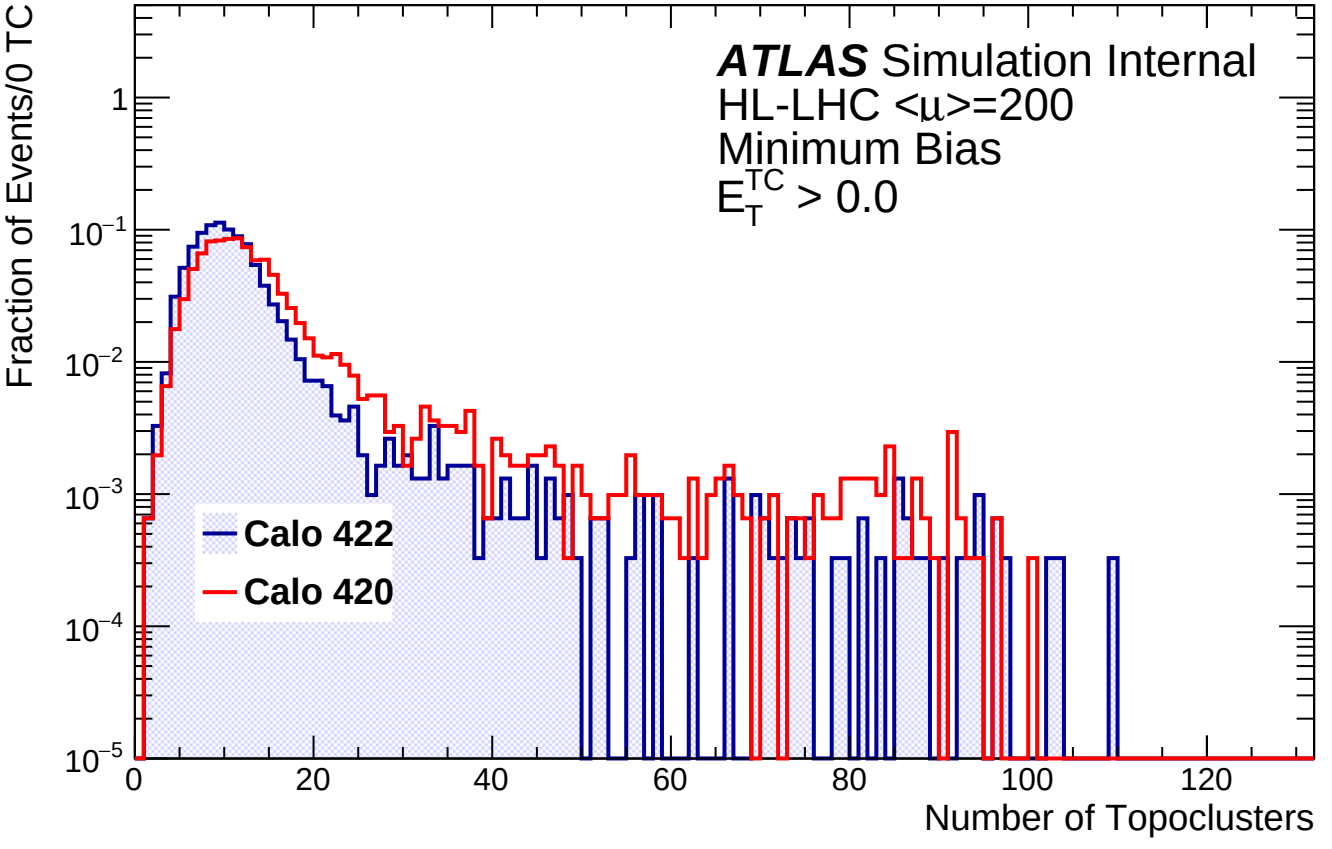


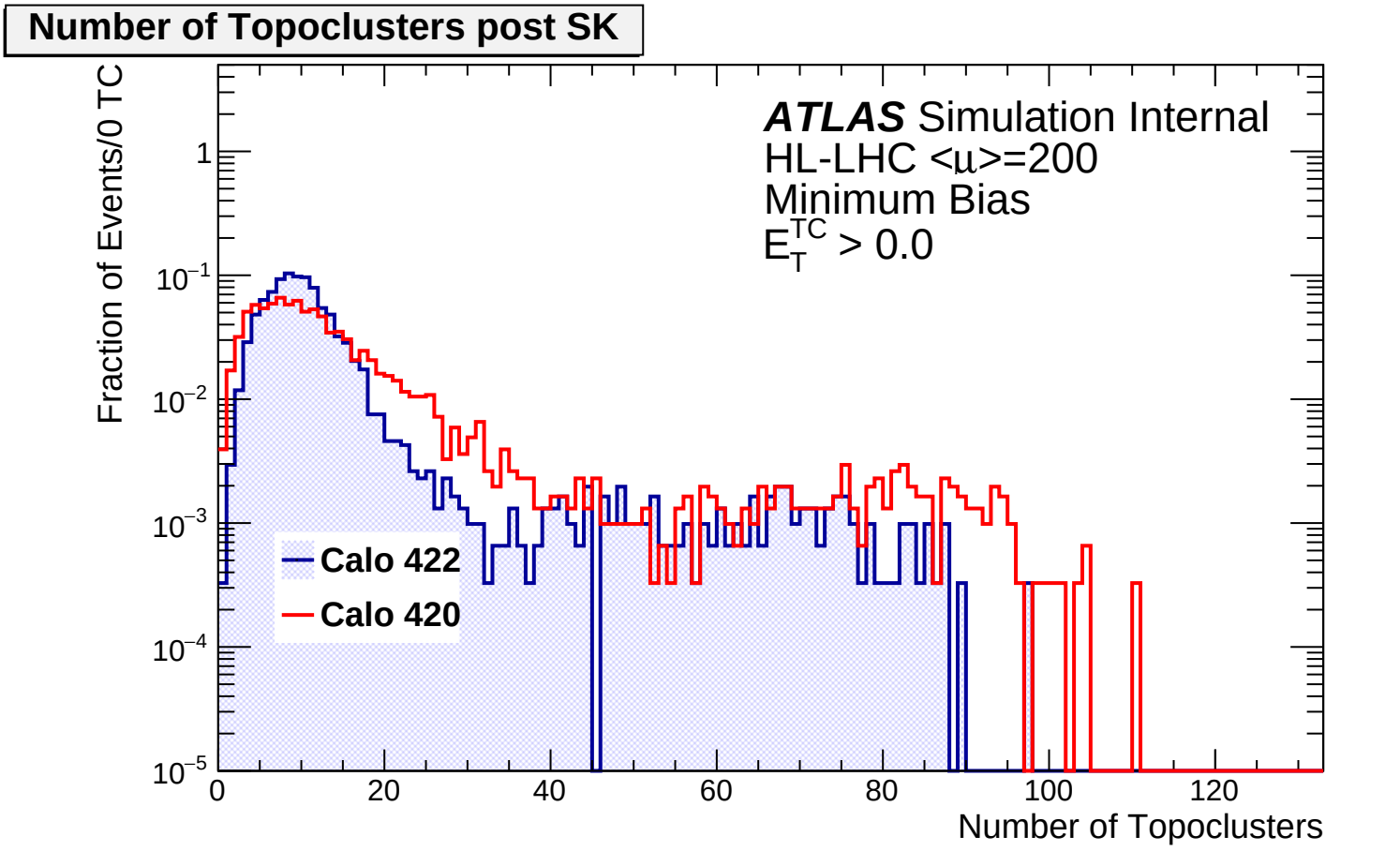
Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 0.0$
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140
160

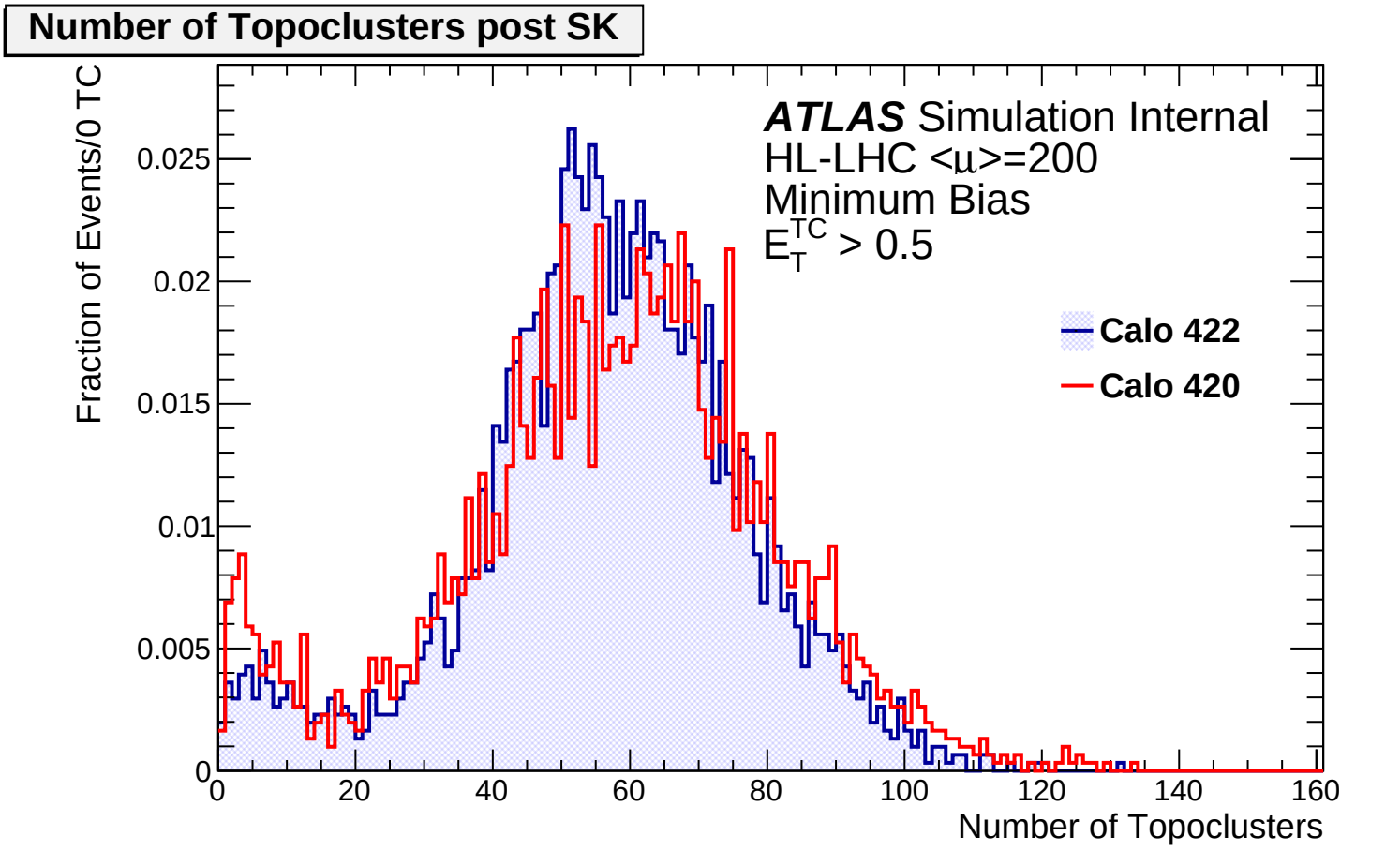

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140

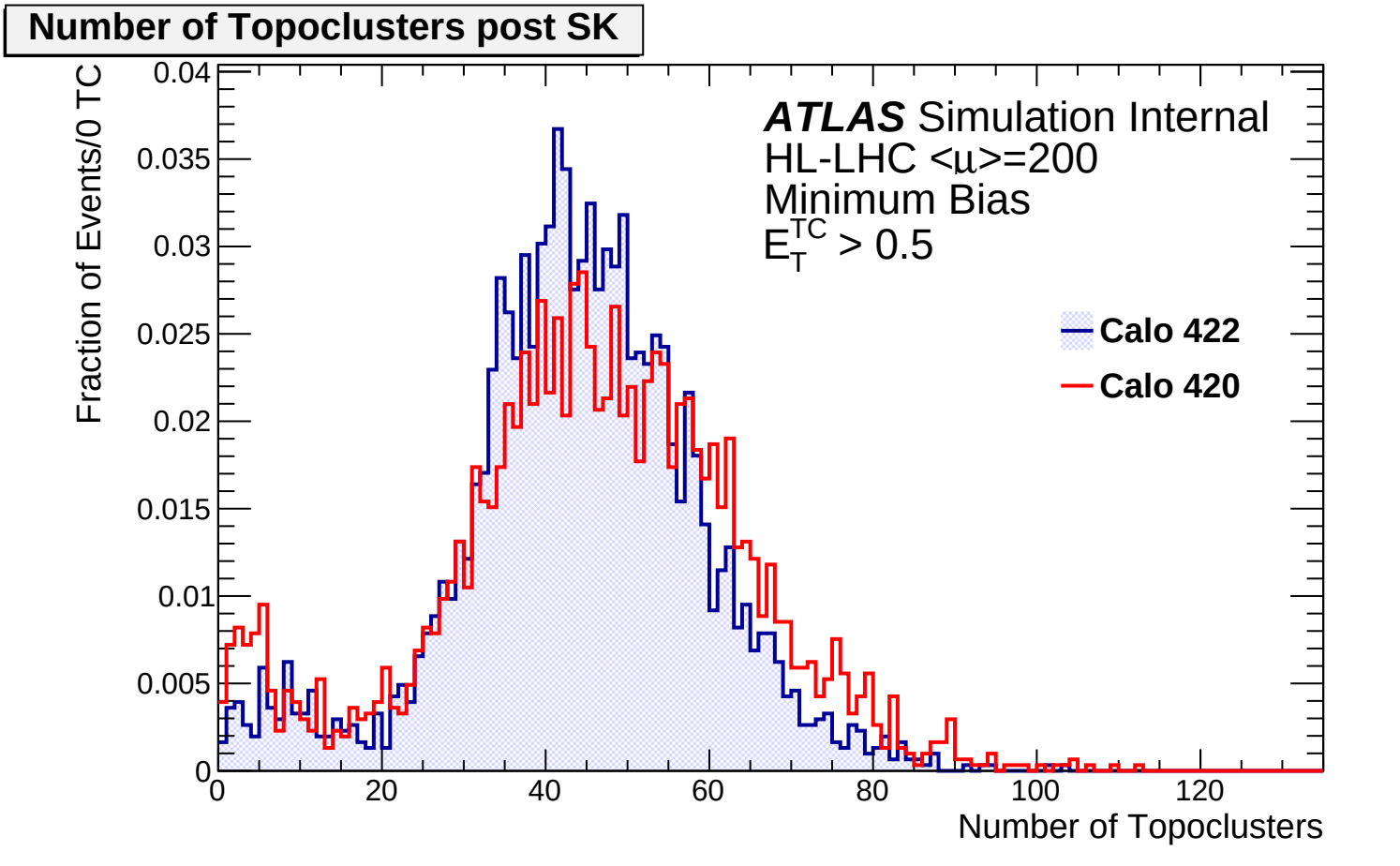

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140

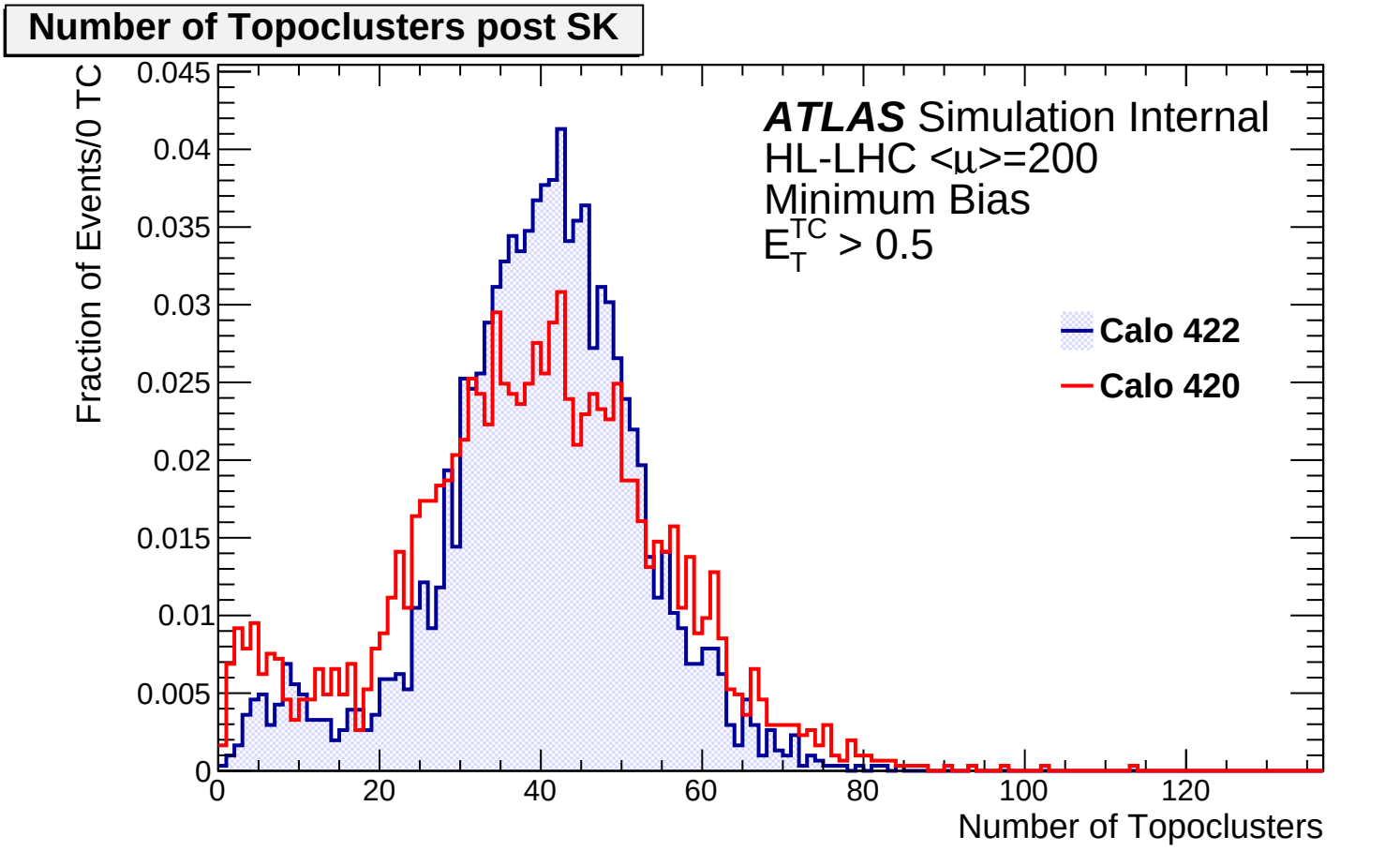
Number of Topoclusters post SK

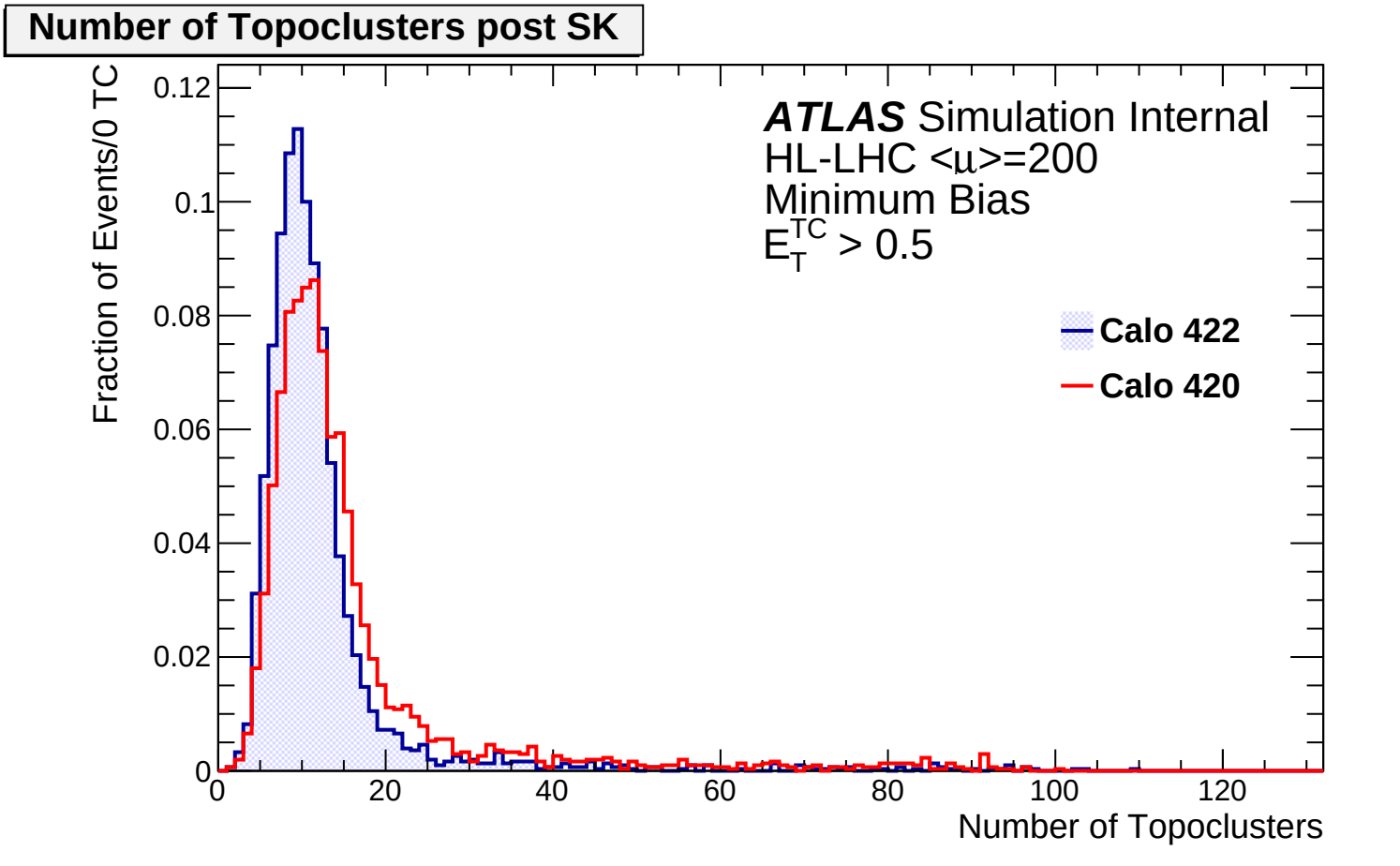


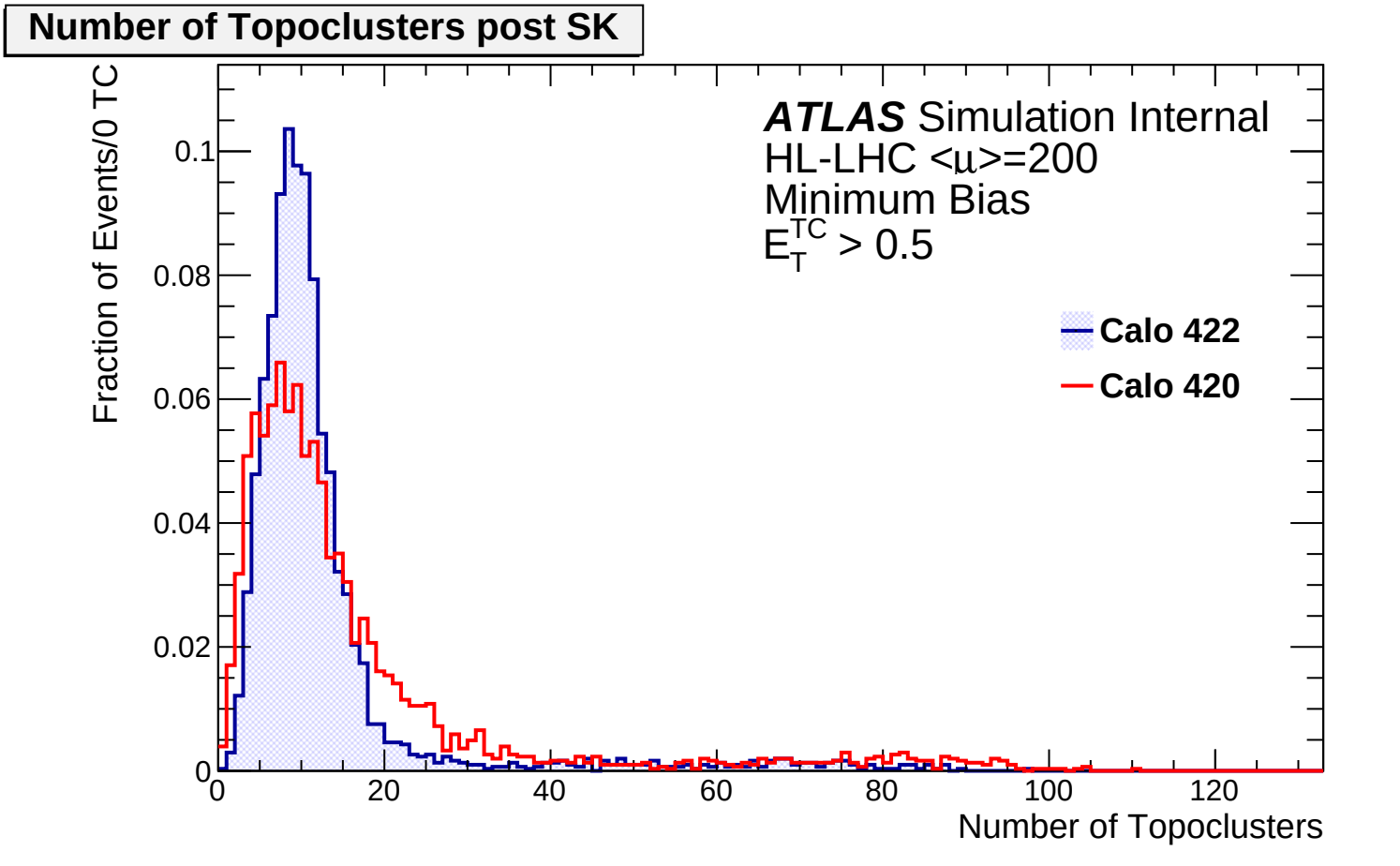

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 0.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120


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/0 TC
0
0.005
0.01
0.015
0.02
0.025
0
20
40
60
80
100
120
140
160
Number of Topoclusters

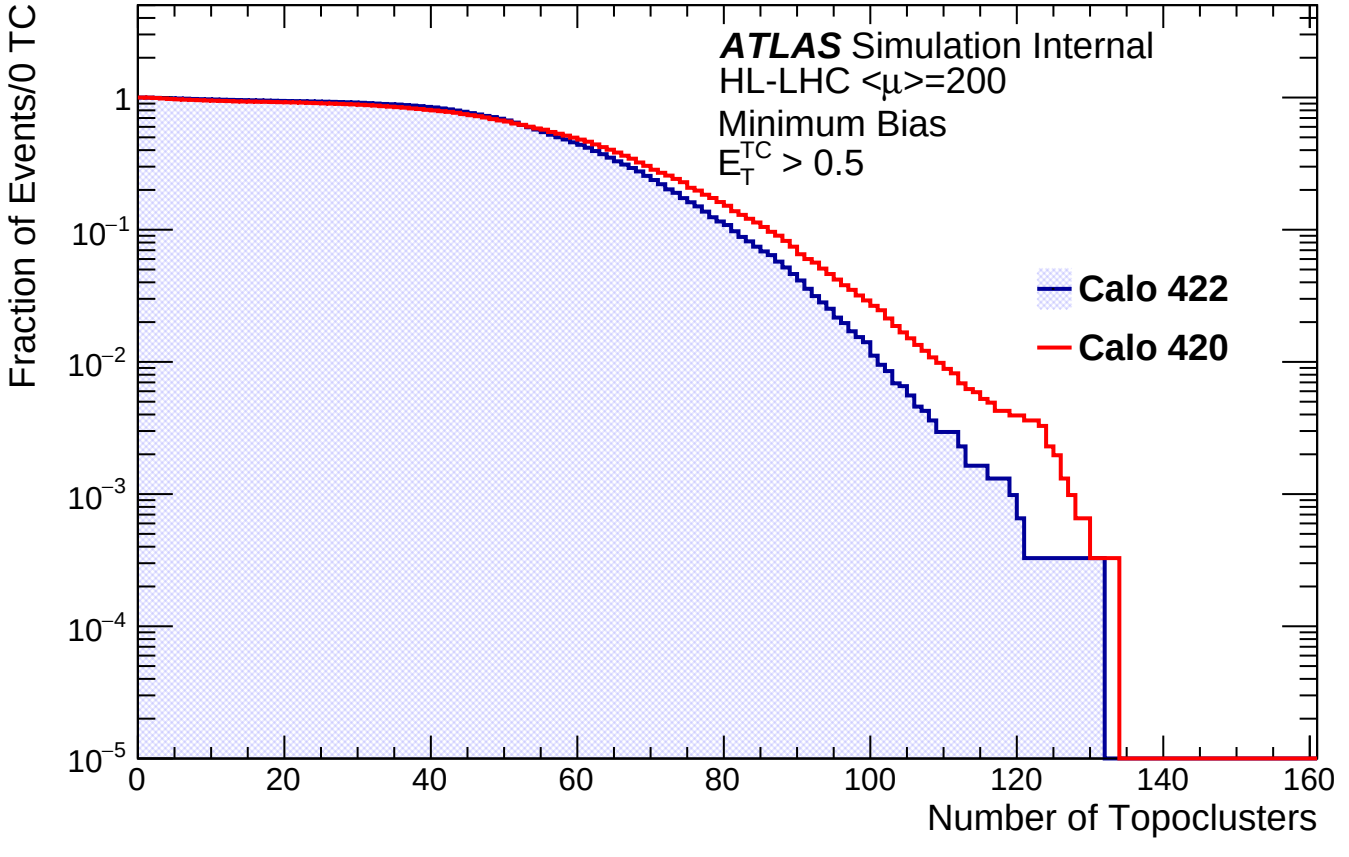

Number of Topoclusters post SK
Fraction of Events/0 TC
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
20
40
60
80
100
120
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 0.5
Calo 422
Calo 420


Number of Topoclusters post SK
Fraction of Events/0 TC
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
20
40
60
80
100
120
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 0.5
Calo 422
Calo 420

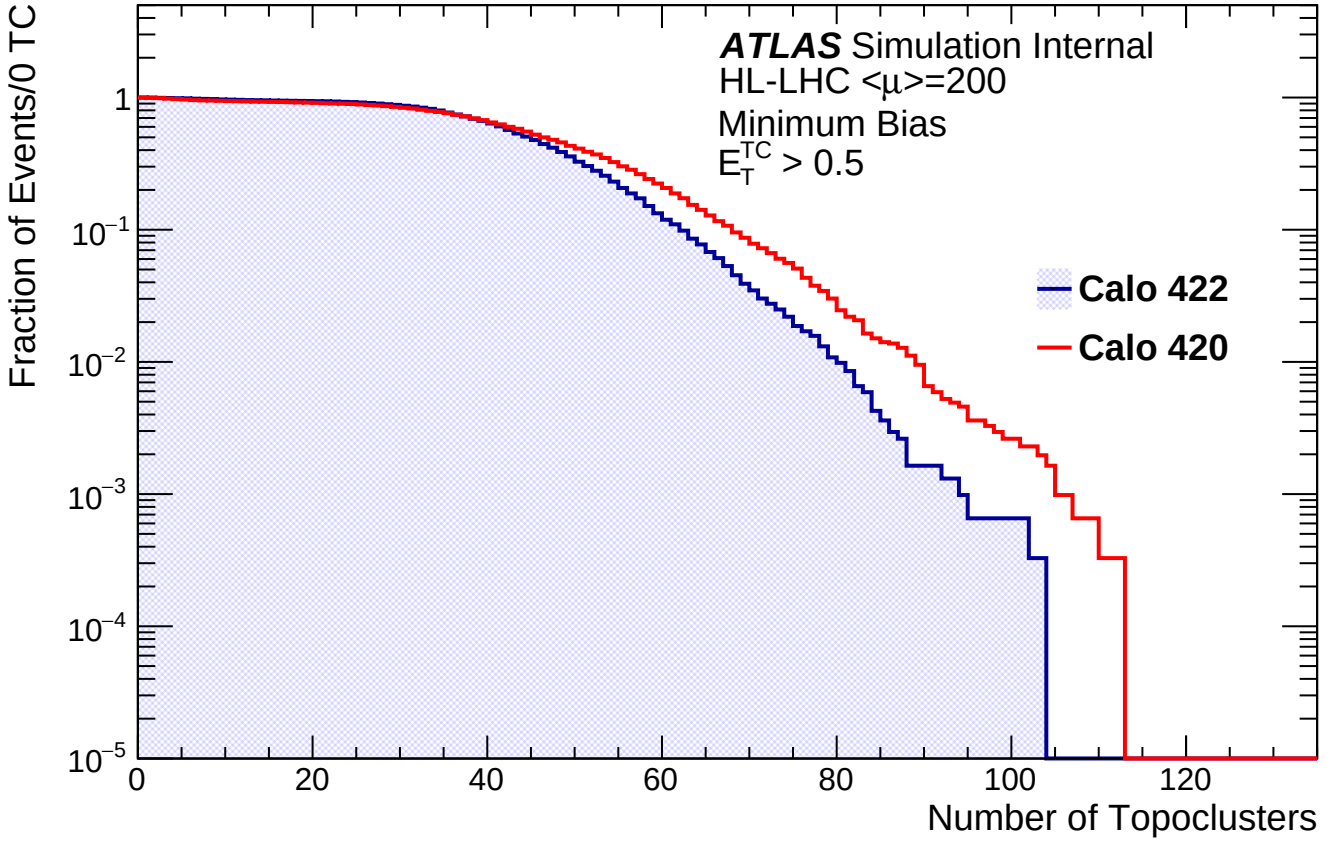

Number of Topoclusters post SK
Fraction of Events/0 TC
0.12
0.1
0.08
0.06
0.04
0.02
0
0
20
40
60
80
100
120
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 0.5
Calo 422
Calo 420


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/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120

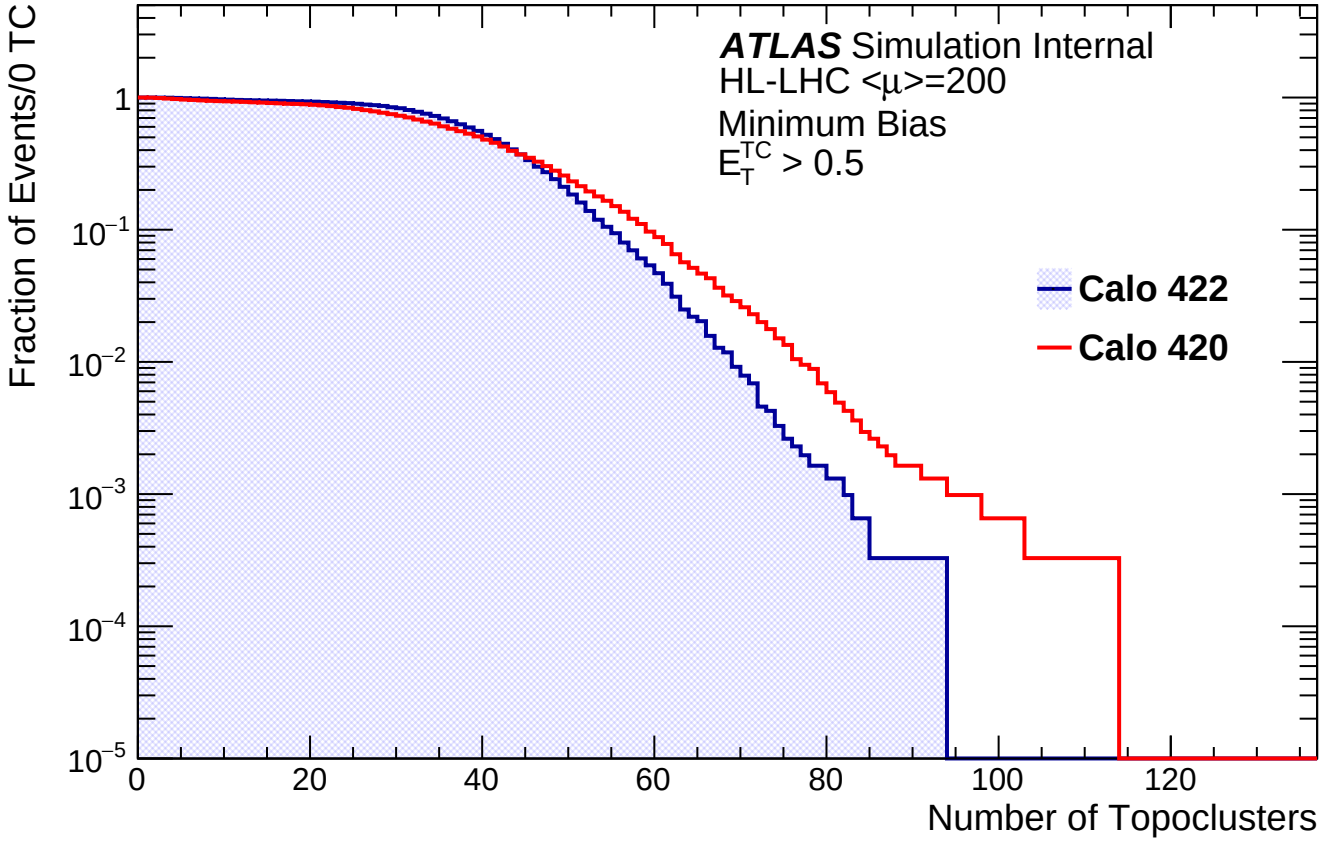
Cumulative Number of Topoclusters post SK



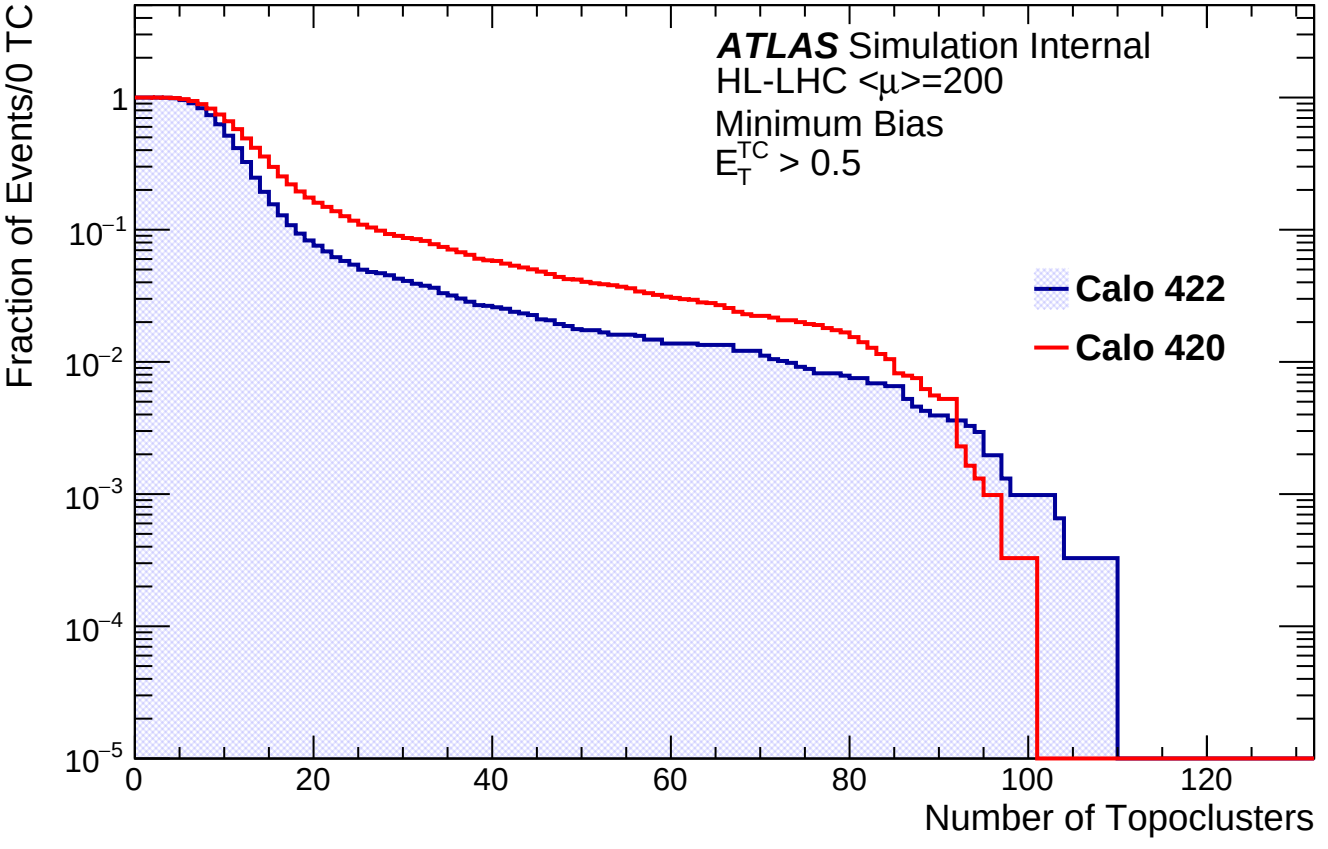
Cumulative Number of Topoclusters post SK



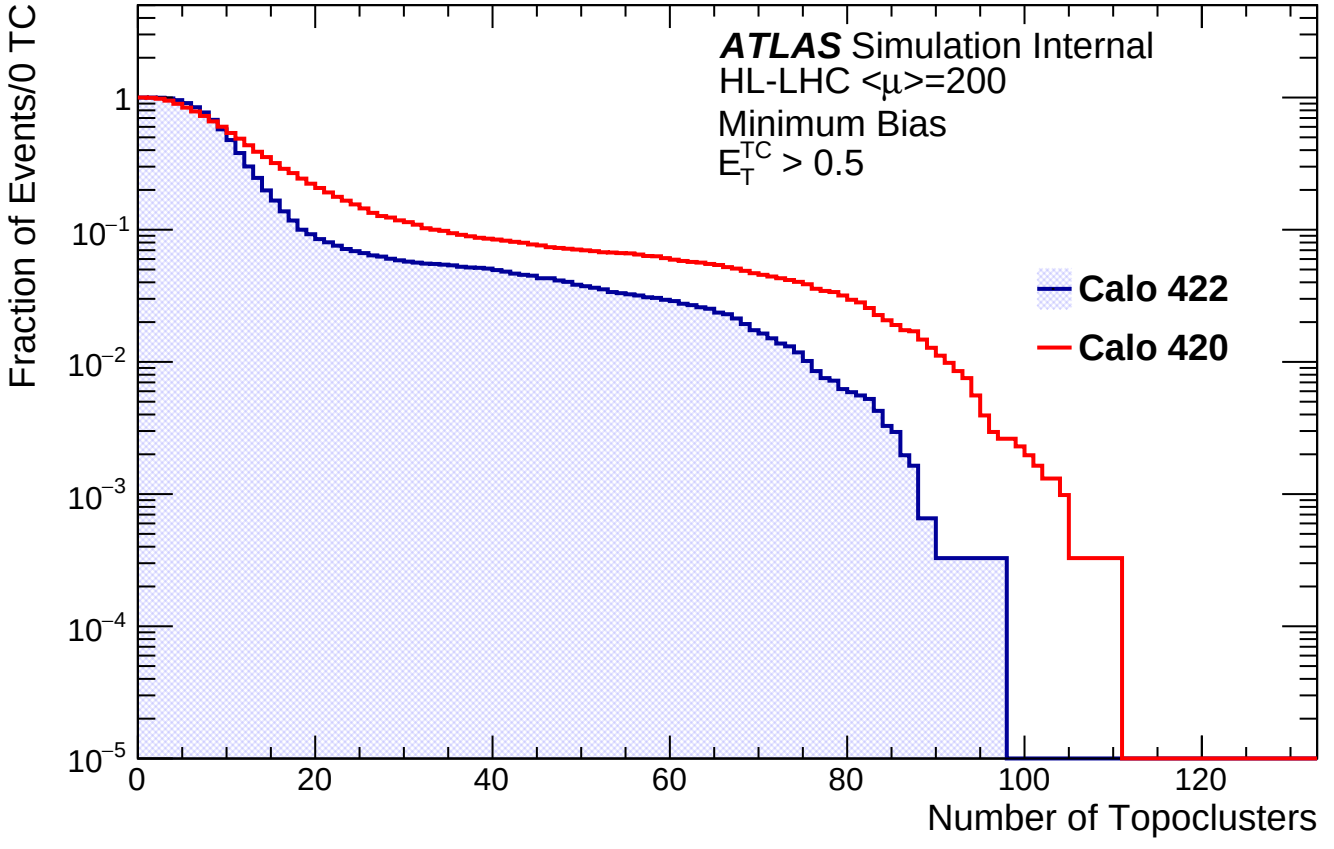
Cumulative Number of Topoclusters post SK

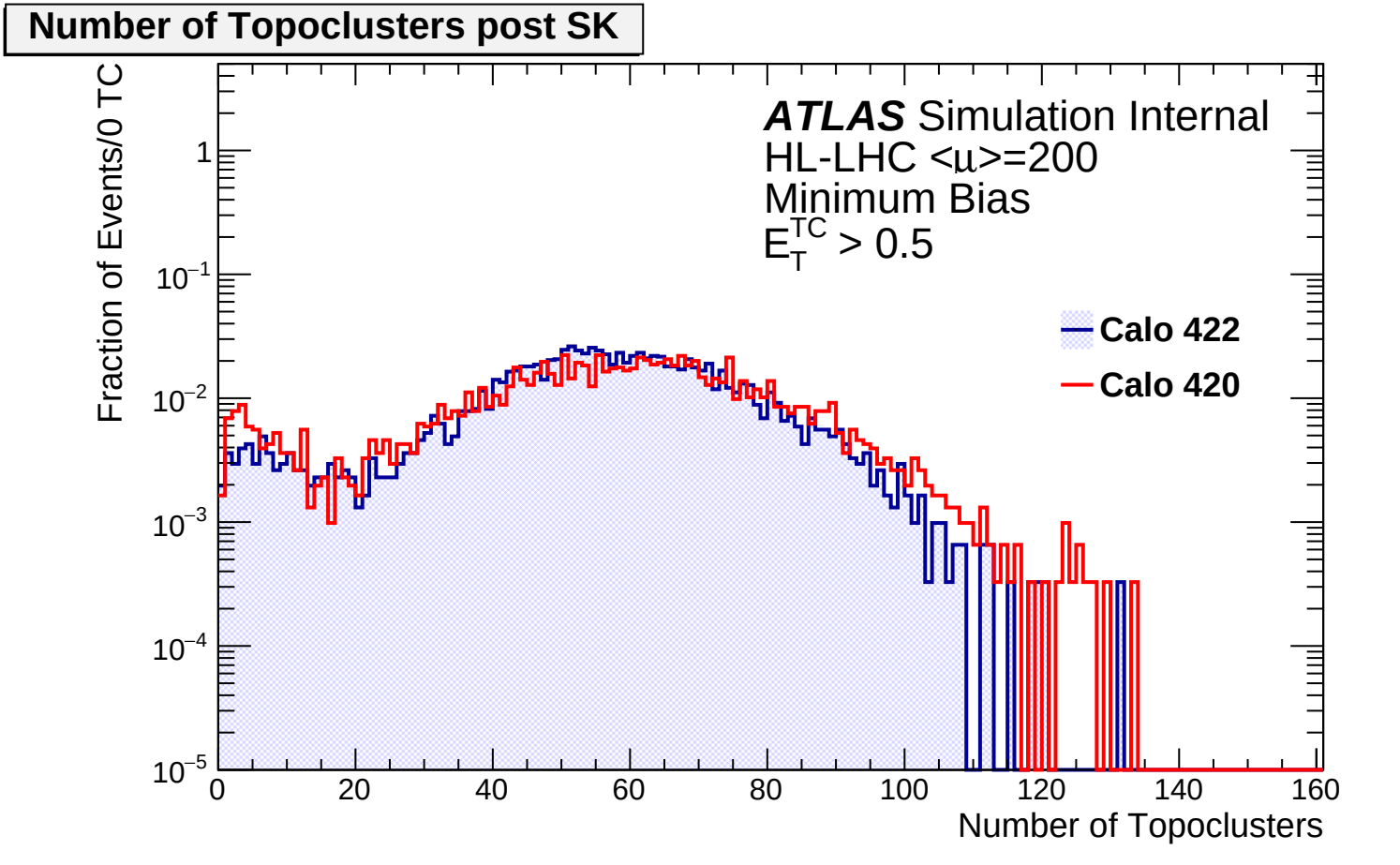


Cumulative Number of Topoclusters post SK

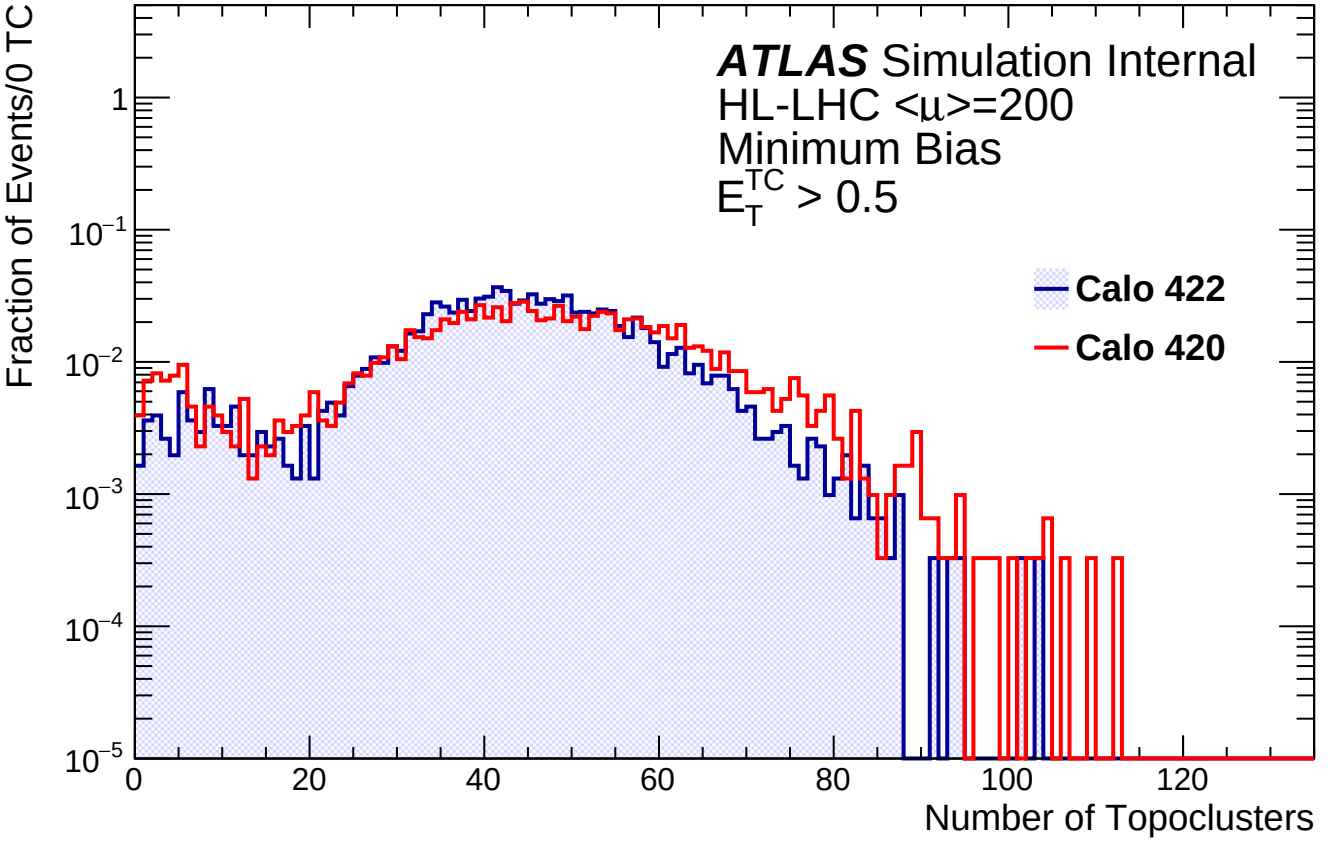


Cumulative Number of Topoclusters post SK

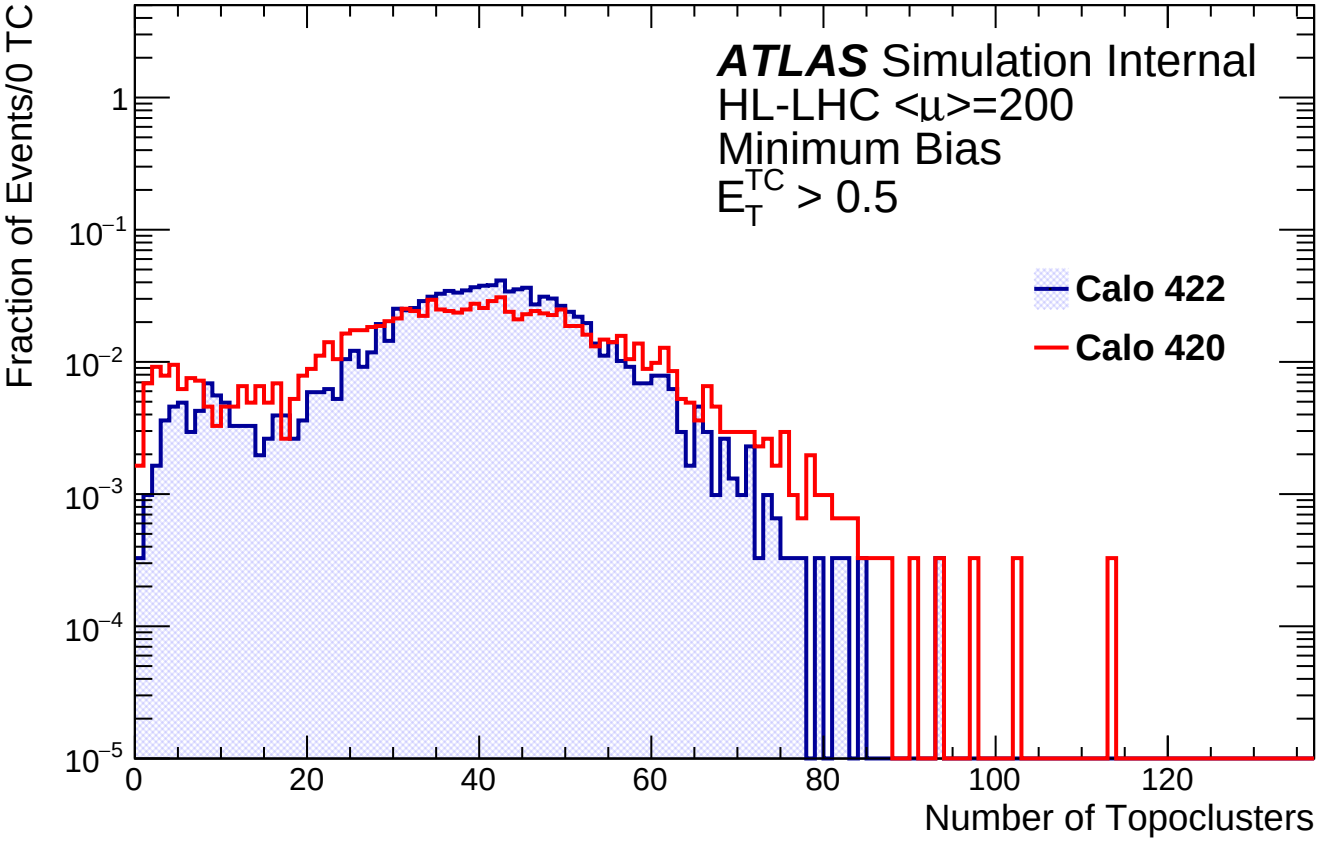



Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 0.5$
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120
140
160

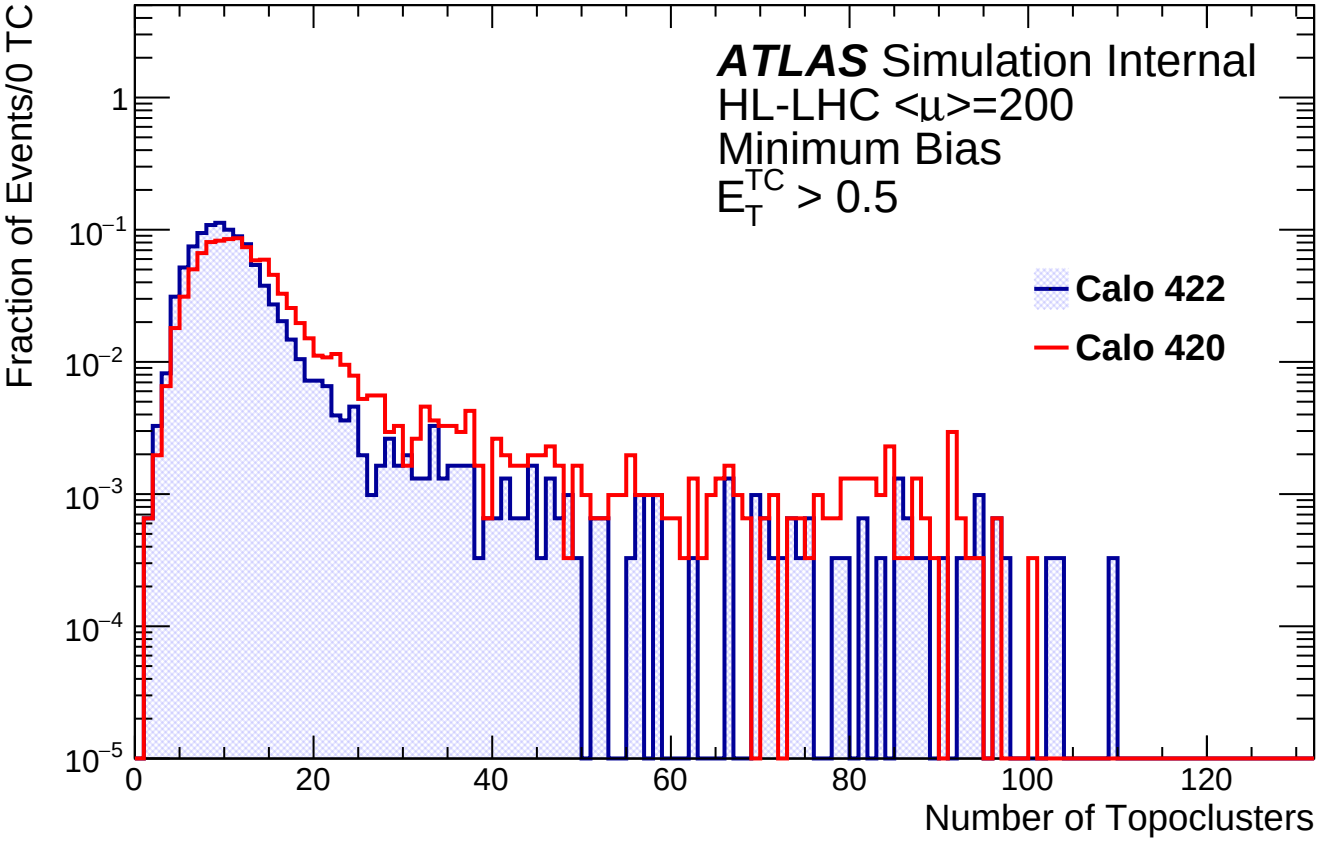
Number of Topoclusters post SK

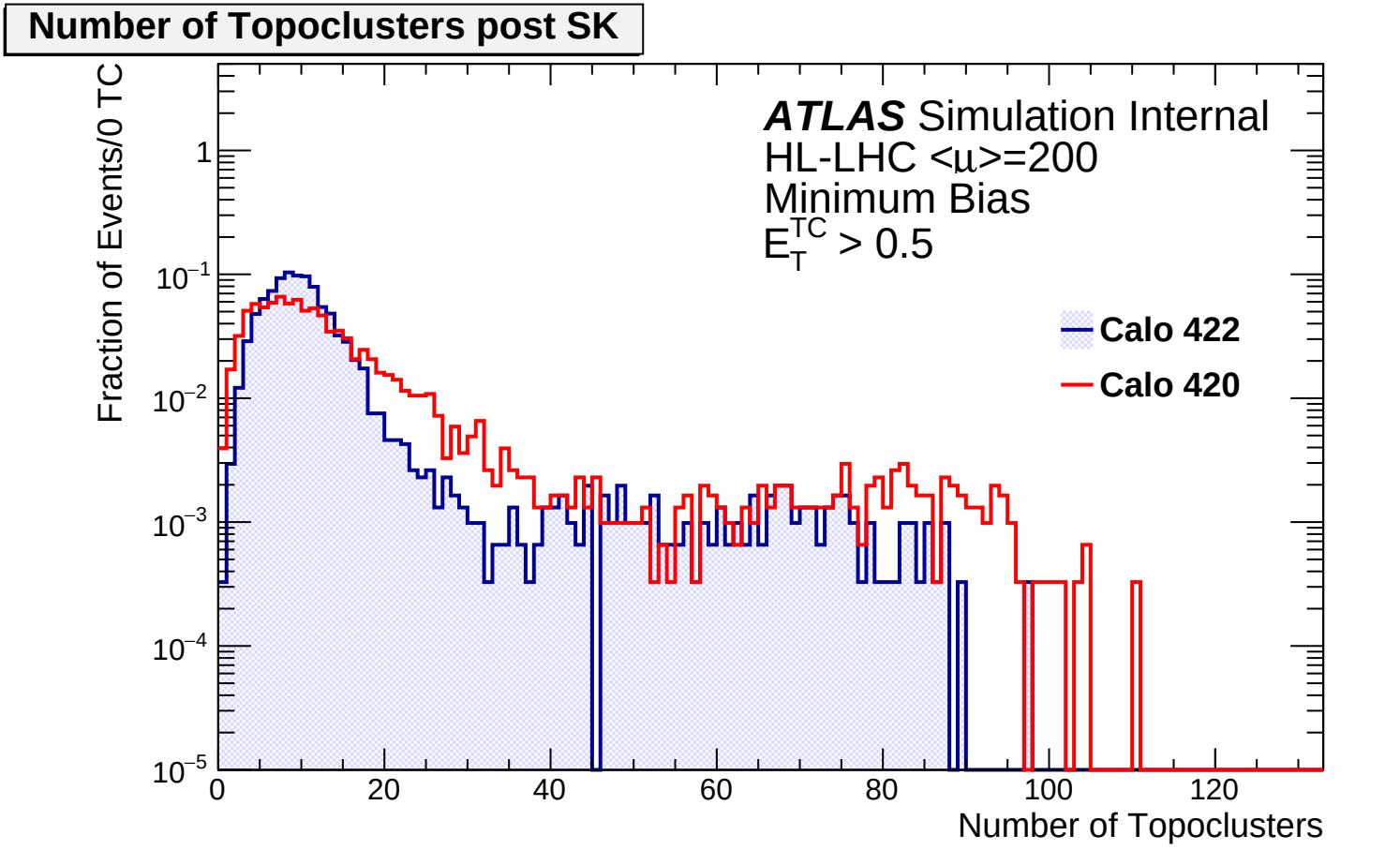


Number of Topoclusters post SK

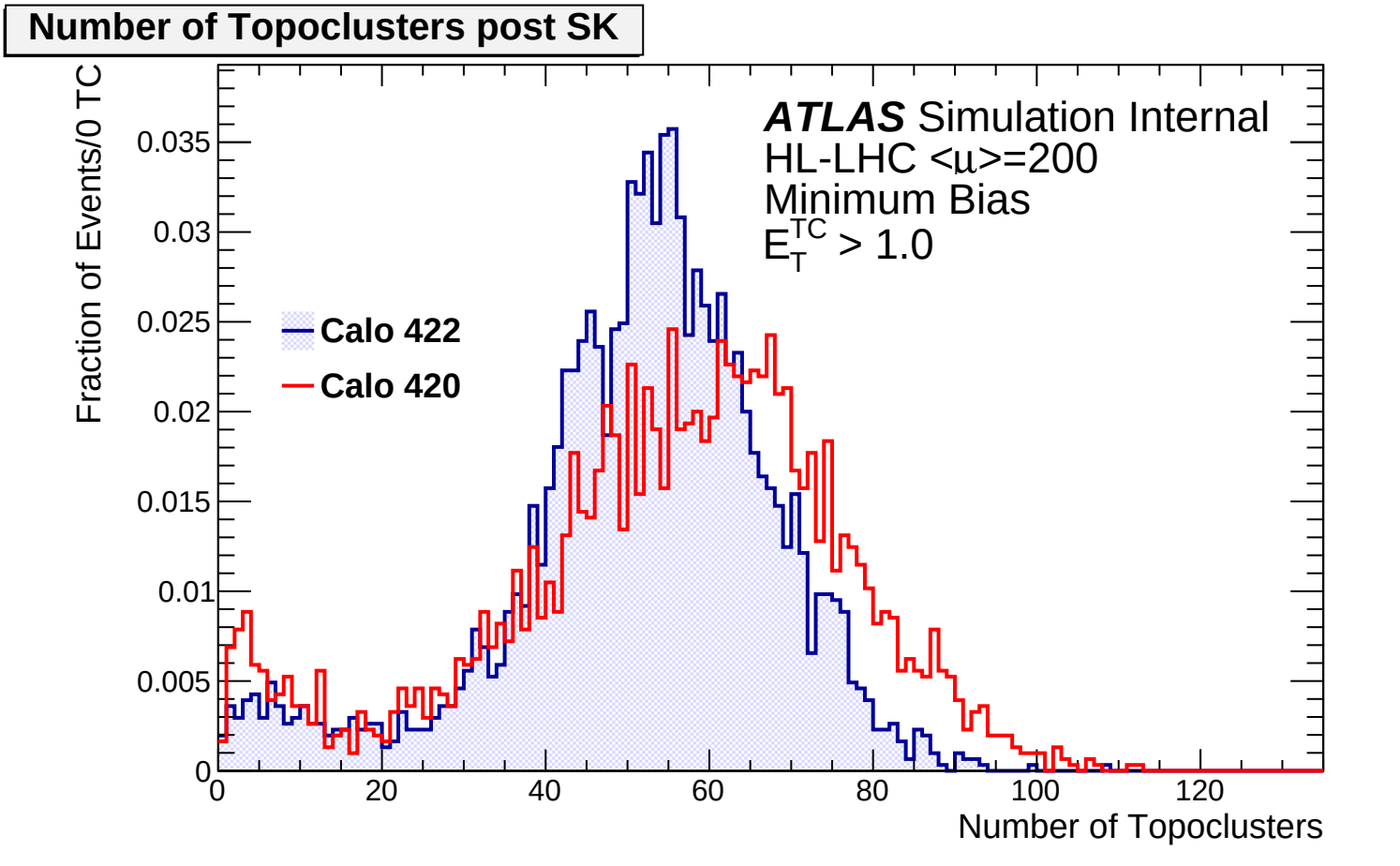


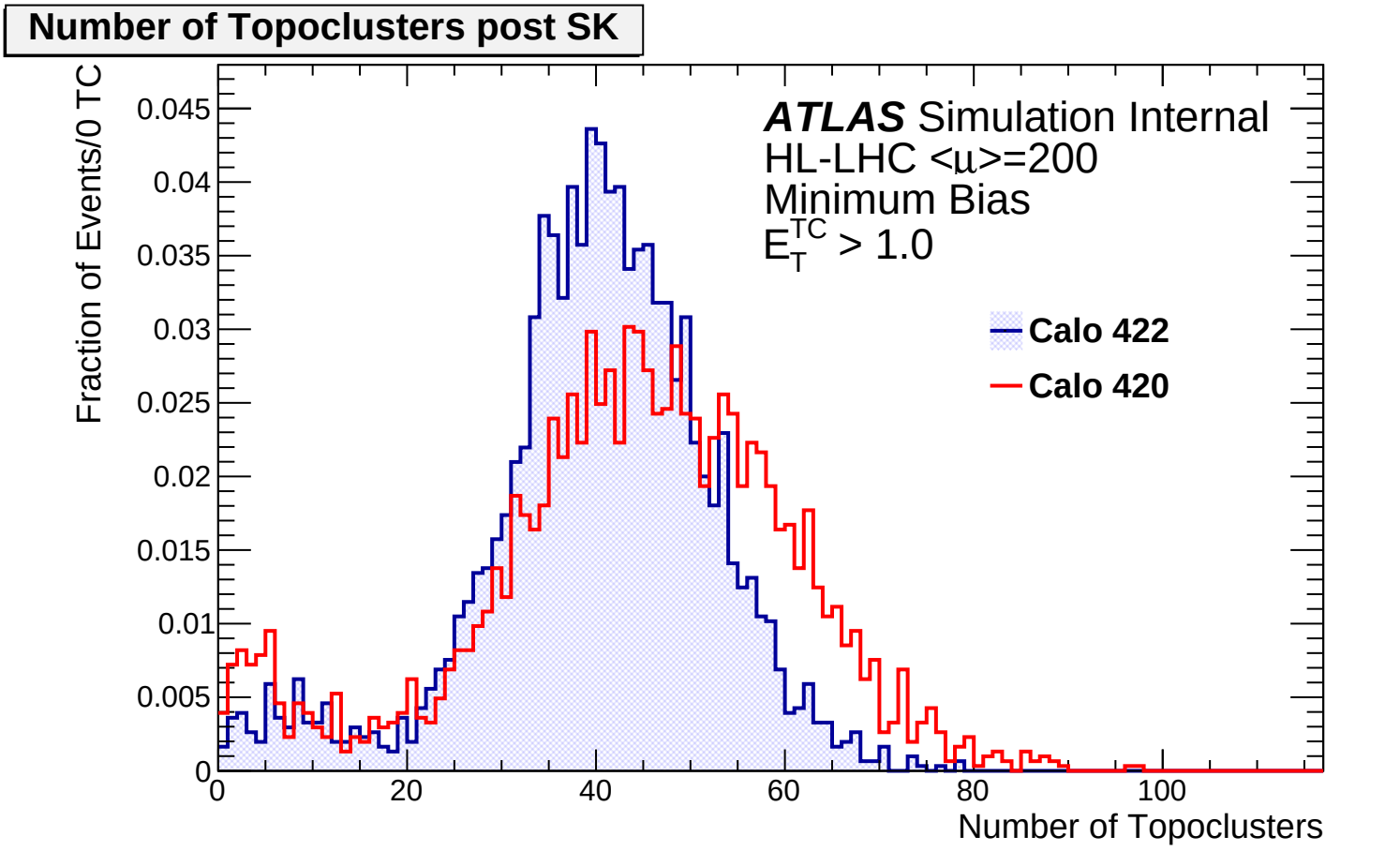
Number of Topoclusters post SK

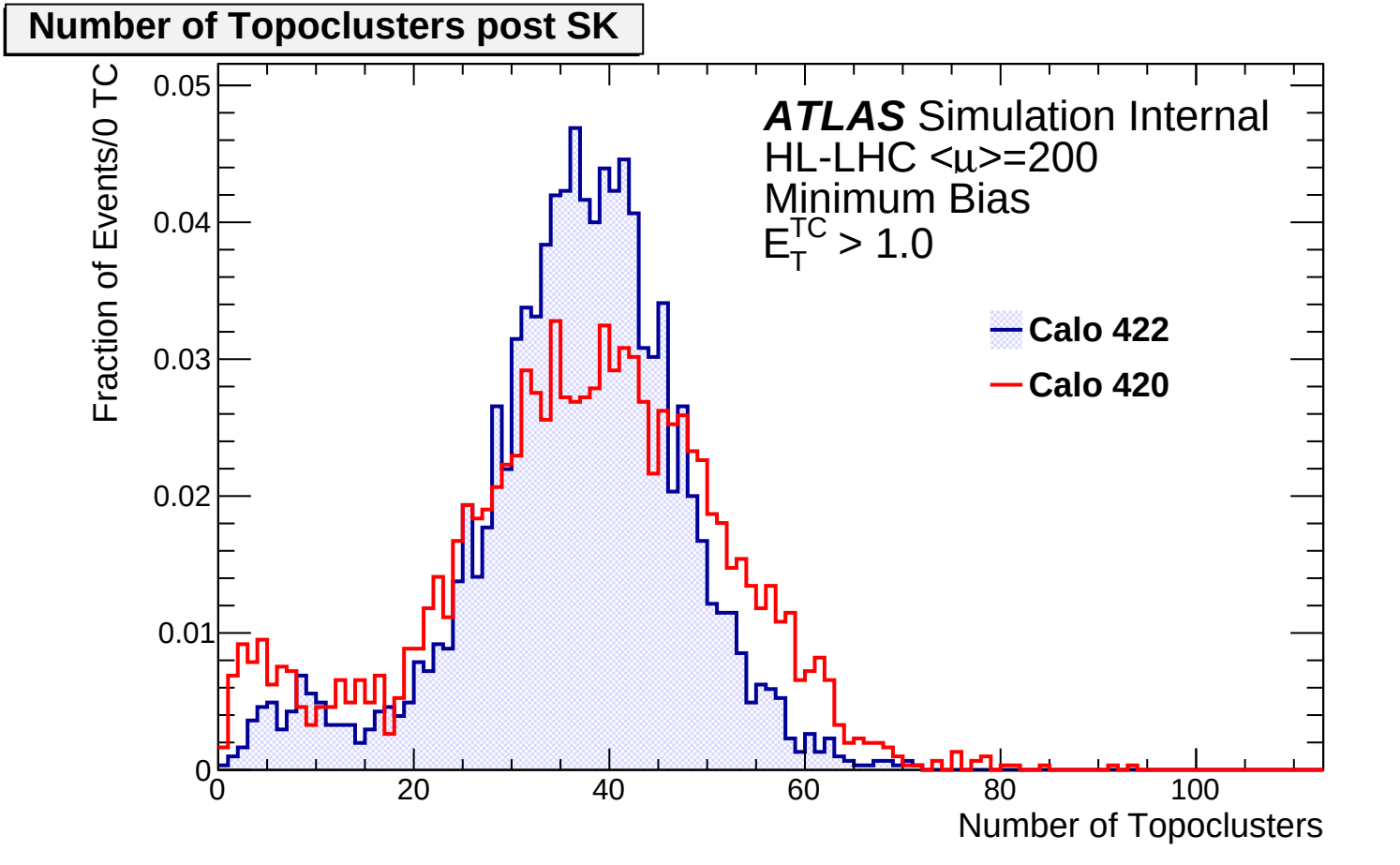


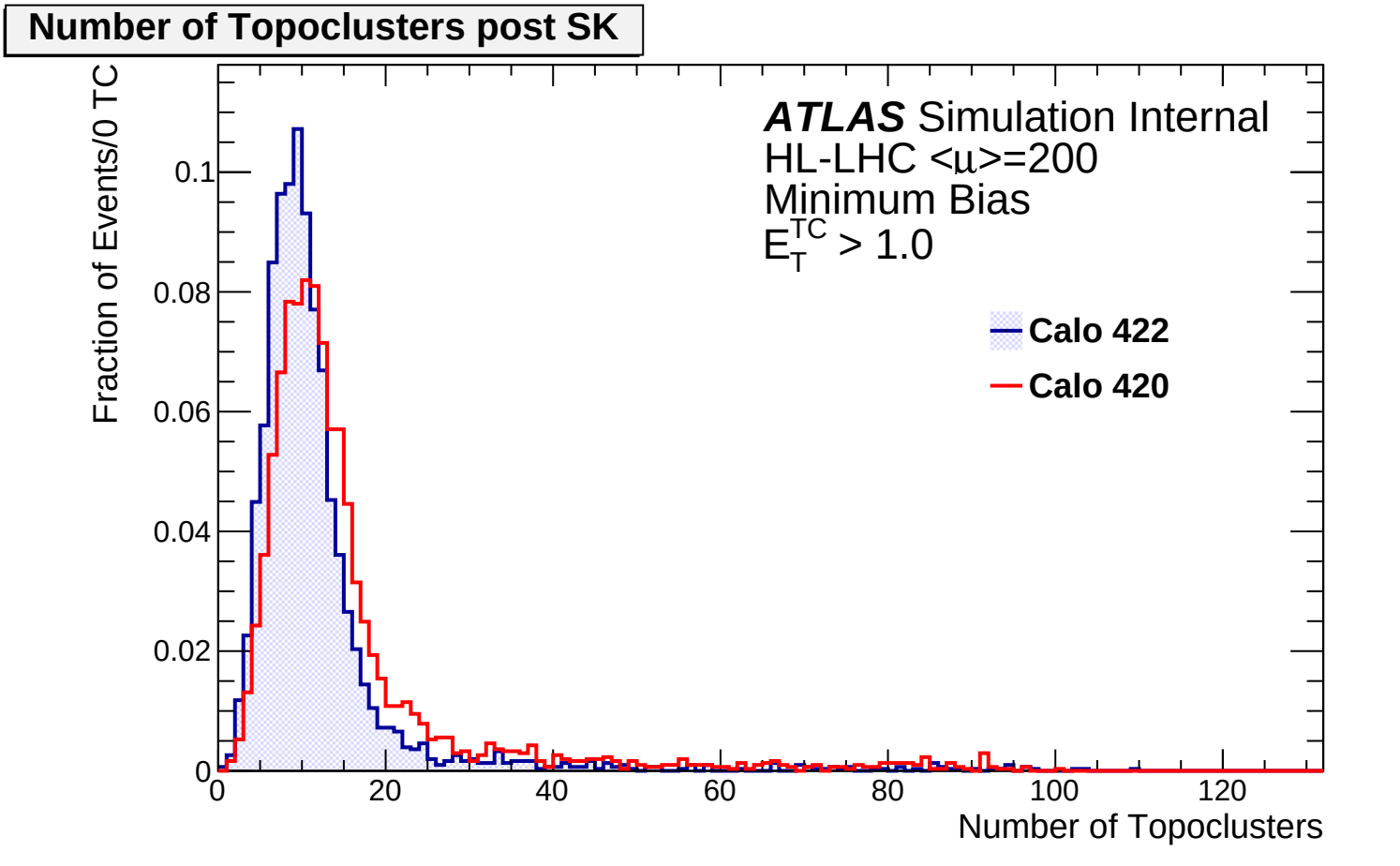


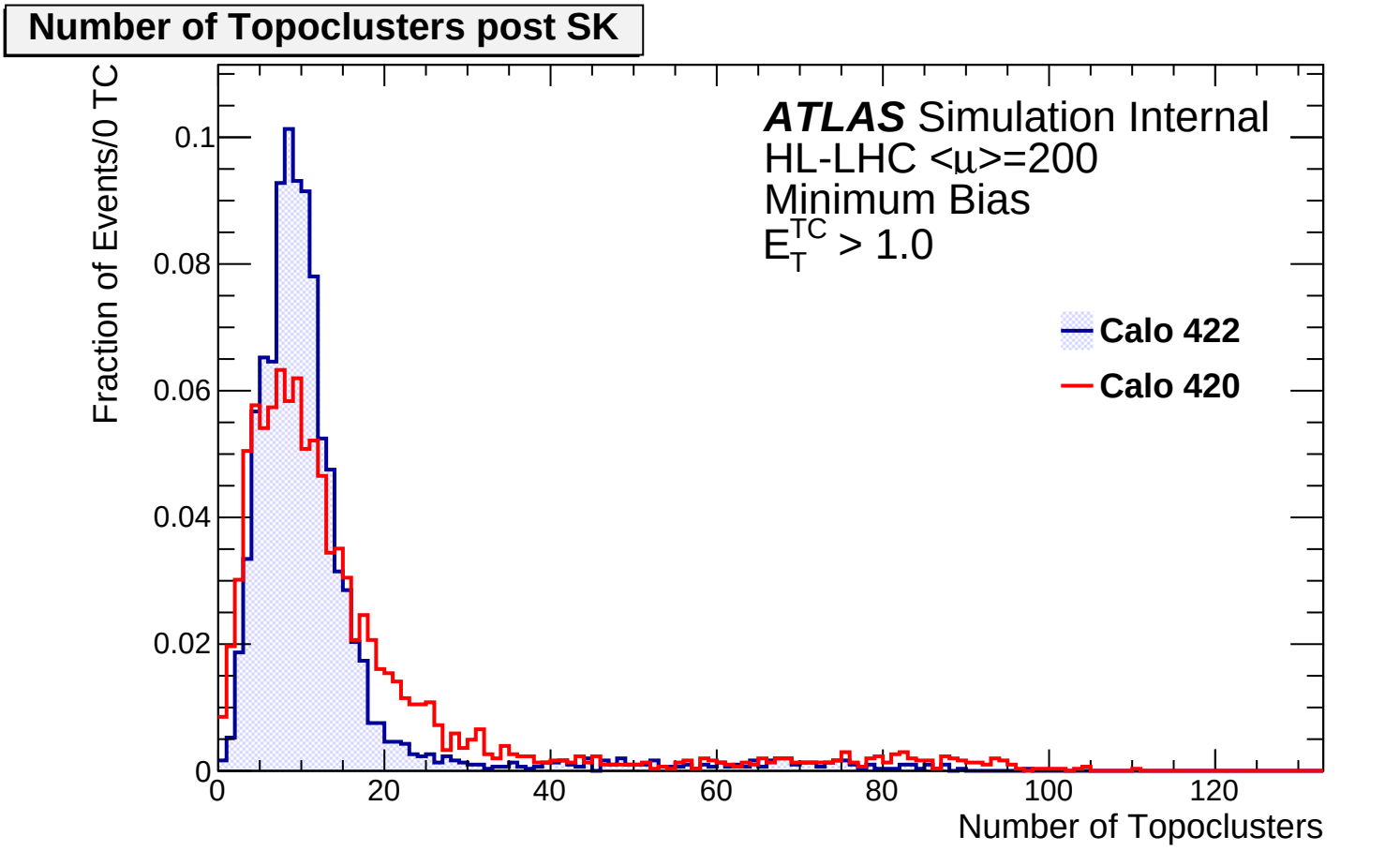
Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
$E_T^{TC} > 0.5$
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120


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/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0
20
40
60
80
100
120

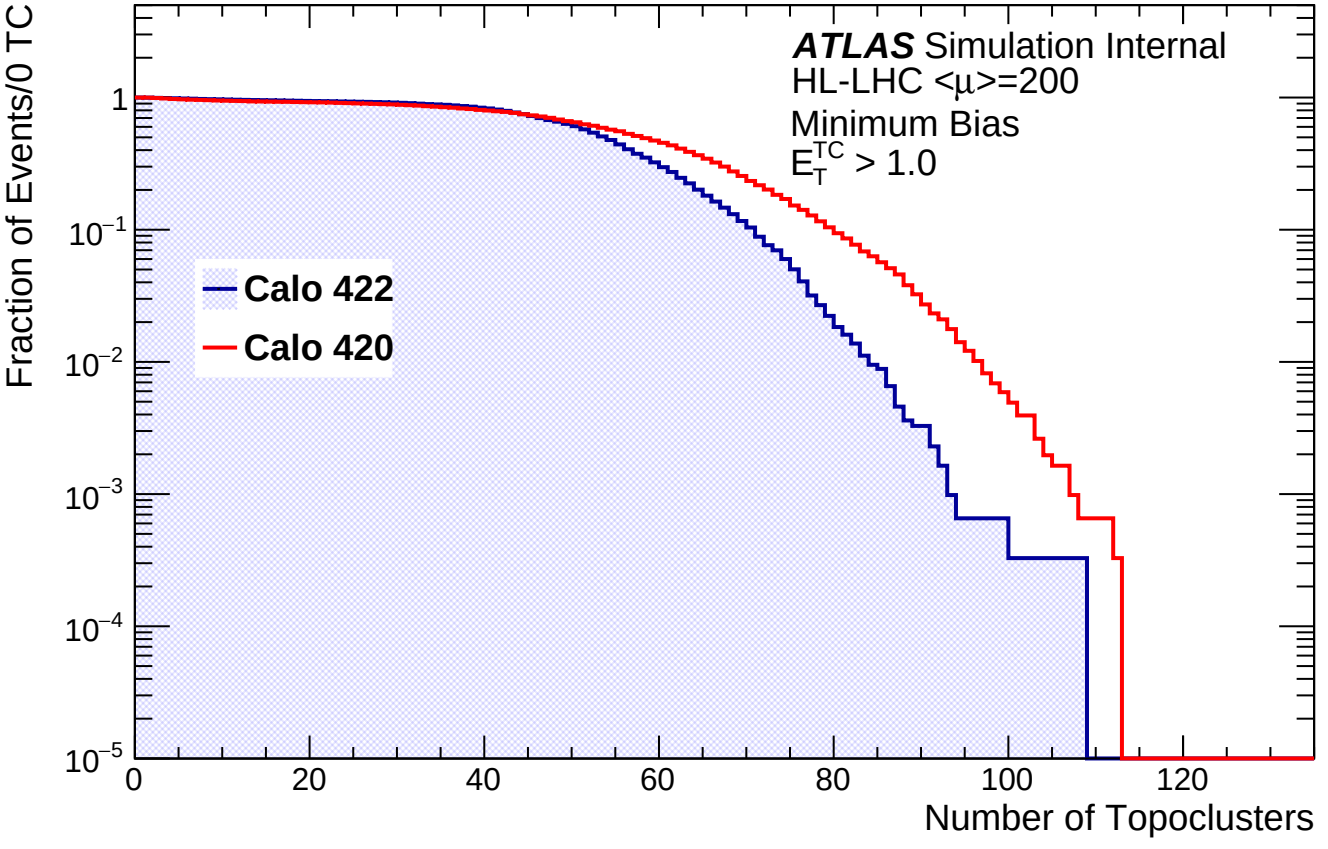

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0
20
40
60
80
100


Number of Topoclusters post SK
Fraction of Events/0 TC
0.05
0.04
0.03
0.02
0.01
0
0
20
40
60
80
100
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 1.0
Calo 422
Calo 420

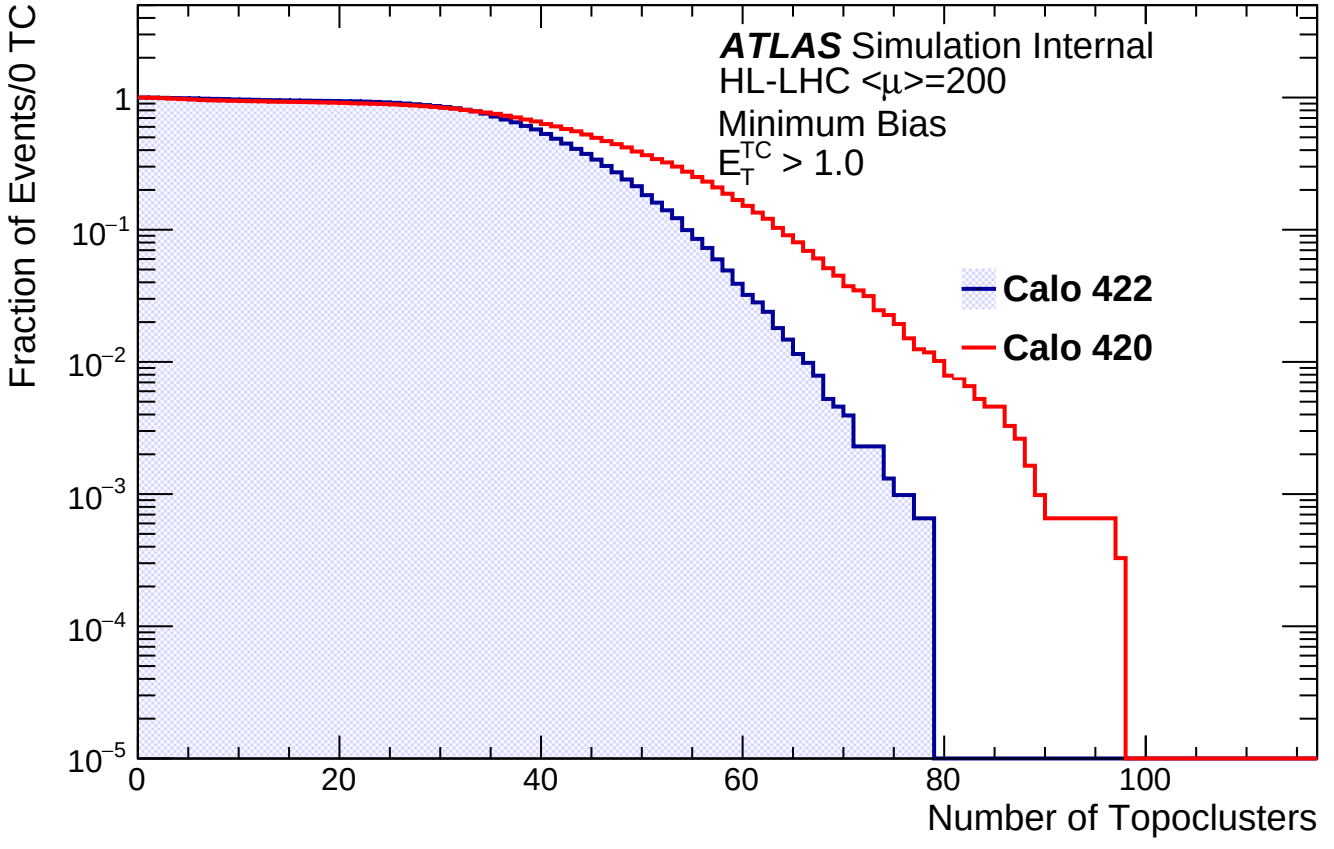

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 1.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120


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/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120

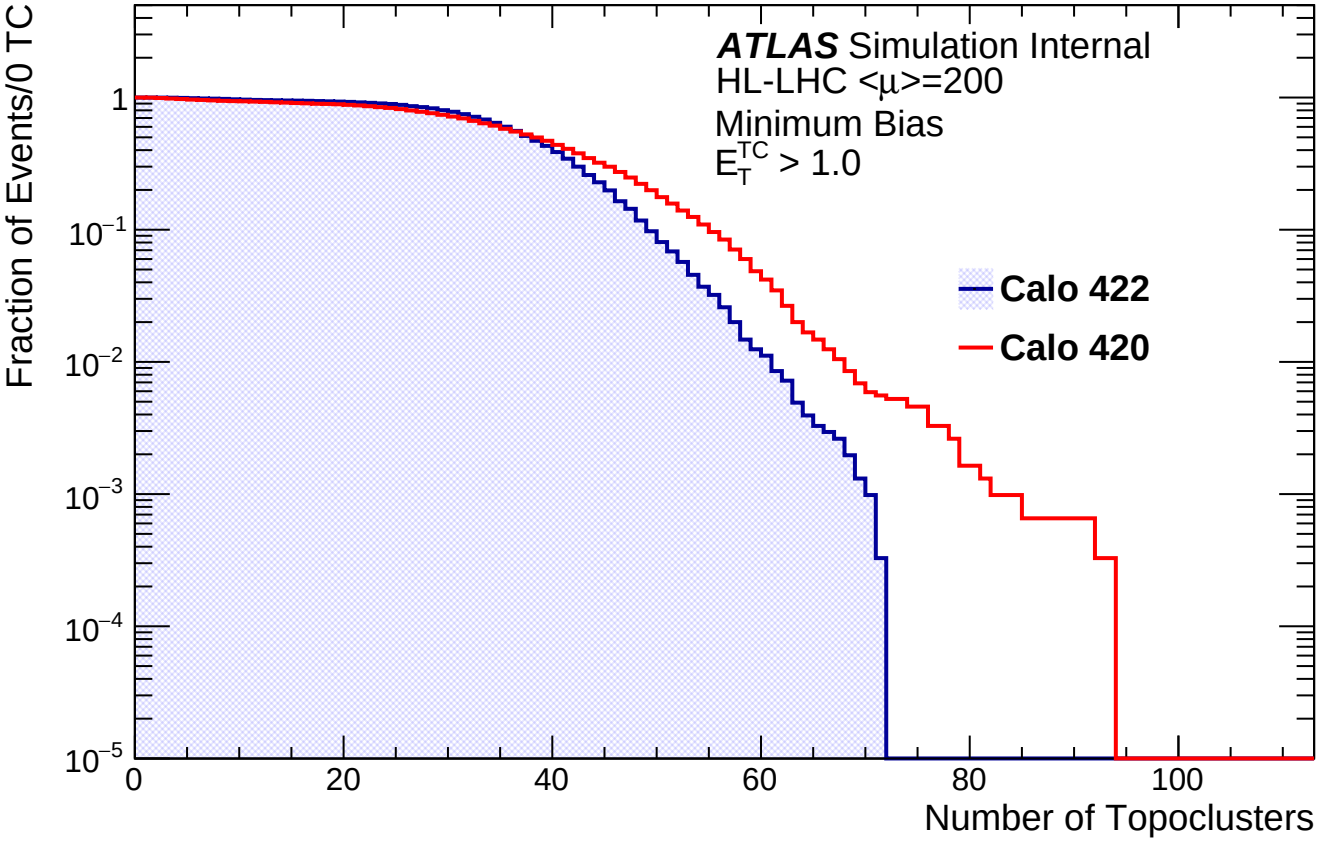
Cumulative Number of Topoclusters post SK



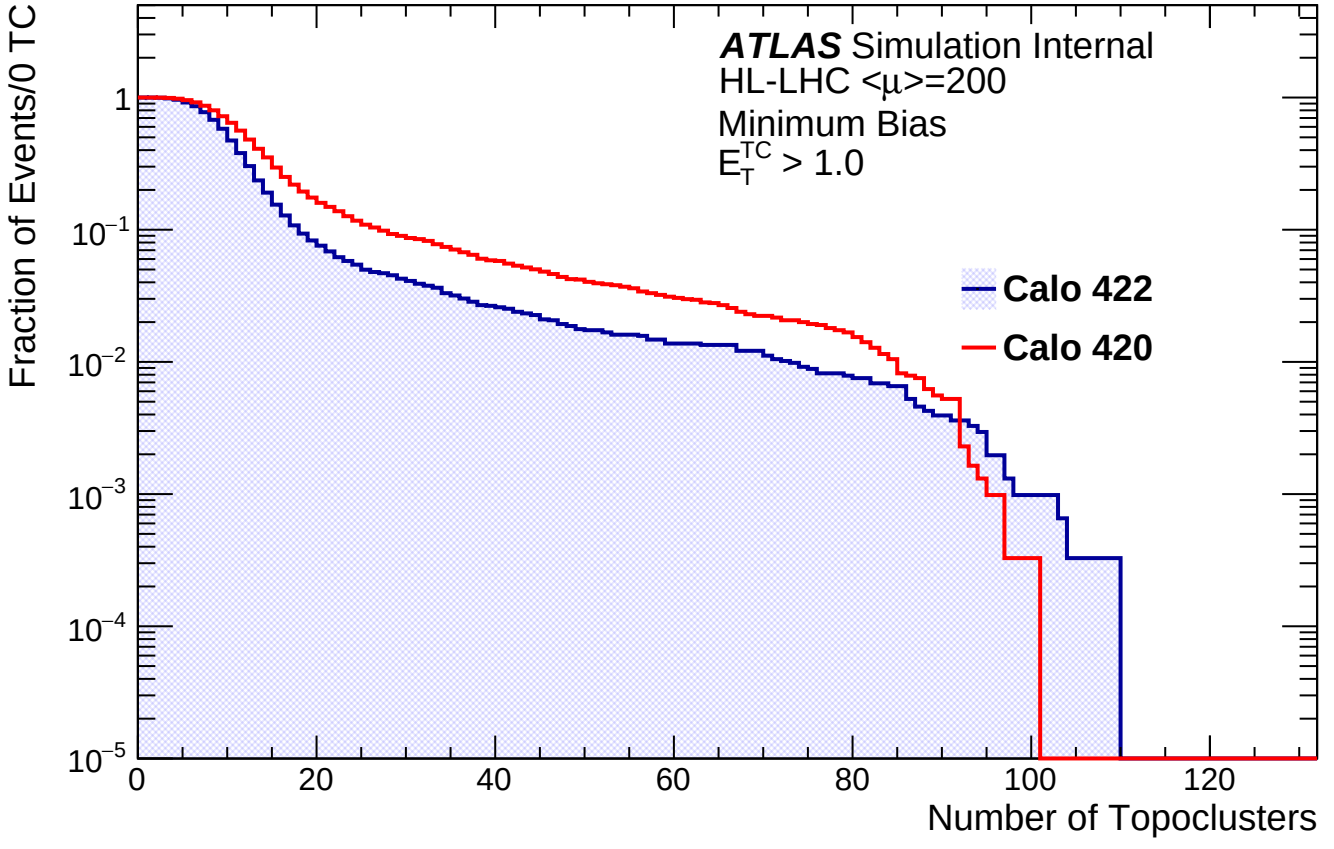
Cumulative Number of Topoclusters post SK



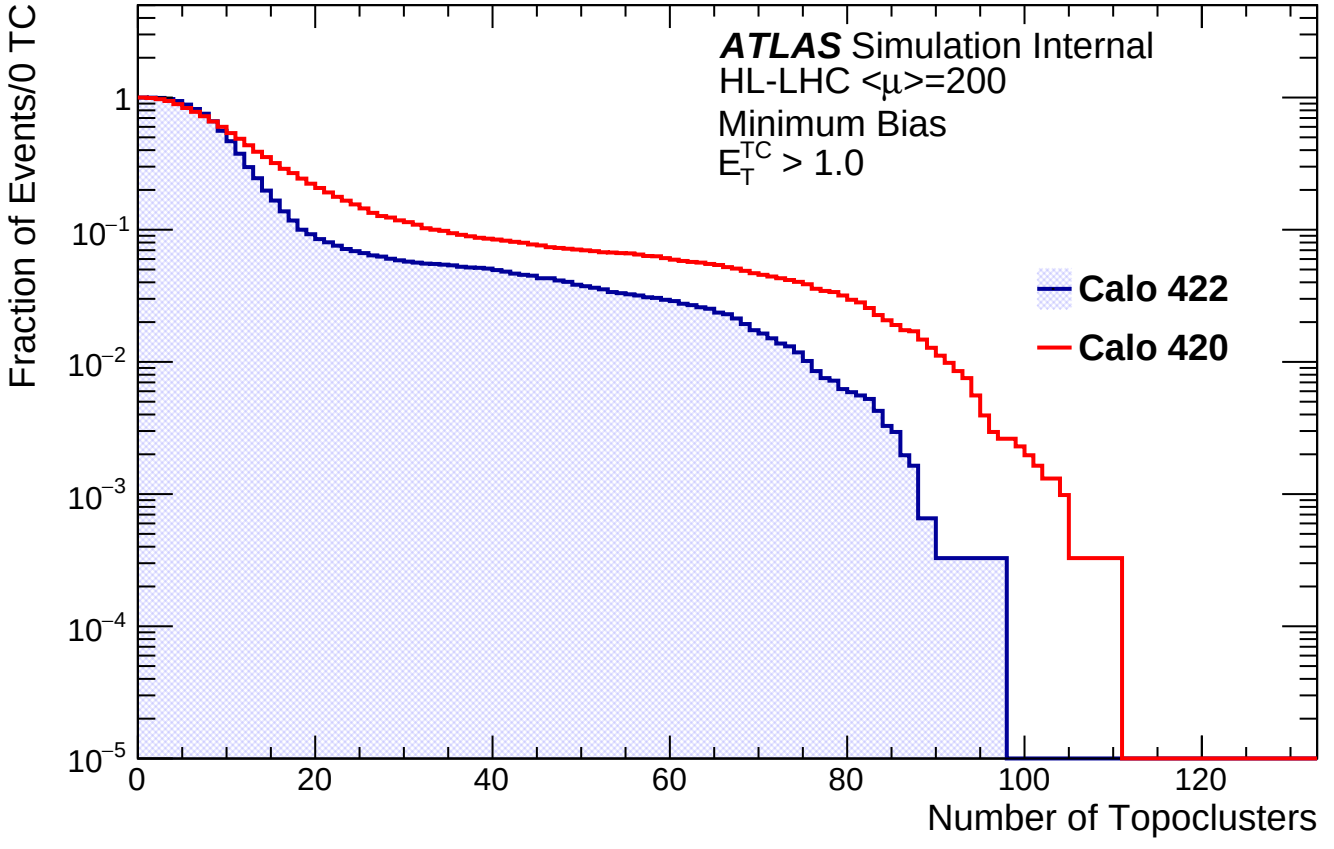
Cumulative Number of Topoclusters post SK

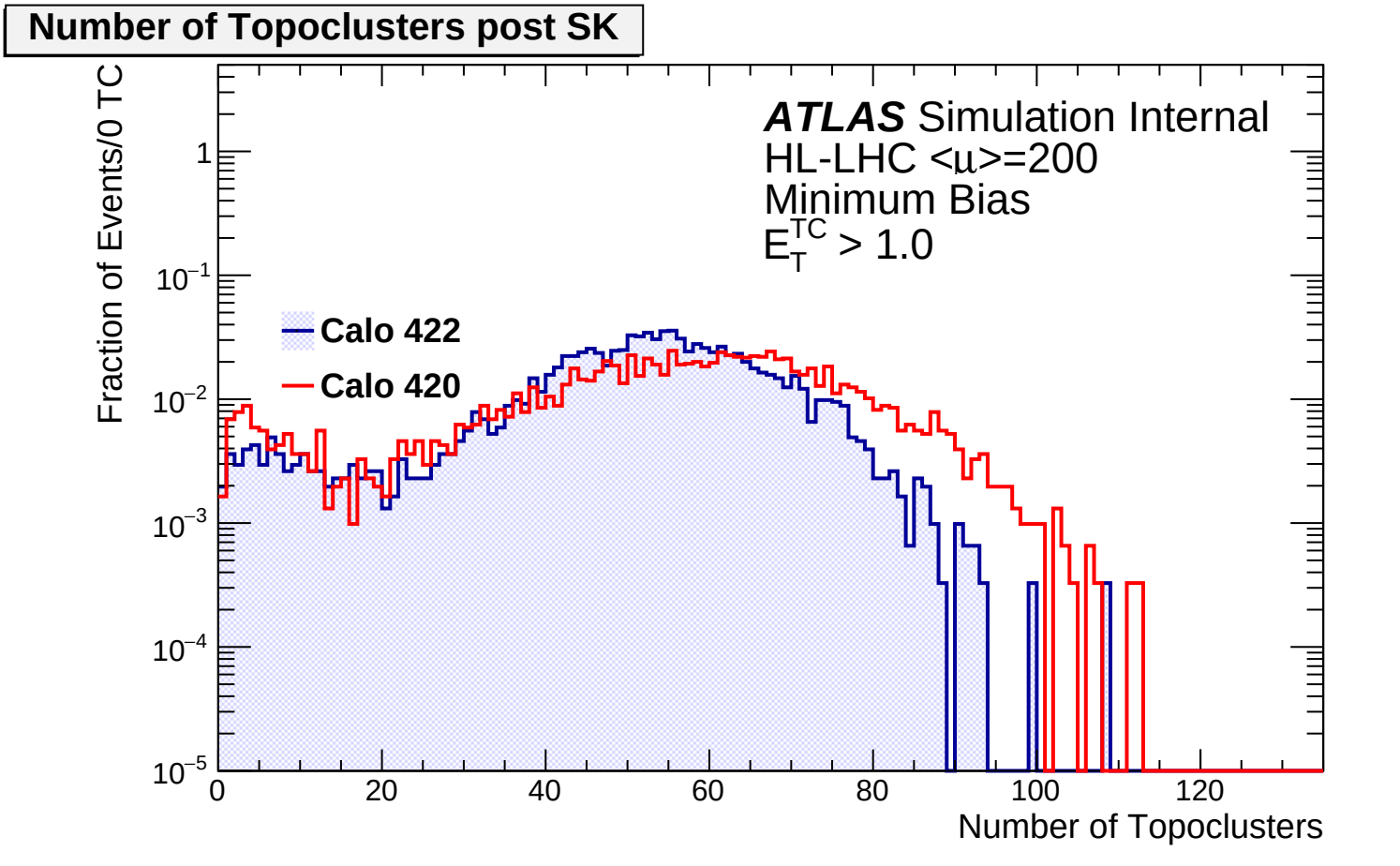


Cumulative Number of Topoclusters post SK

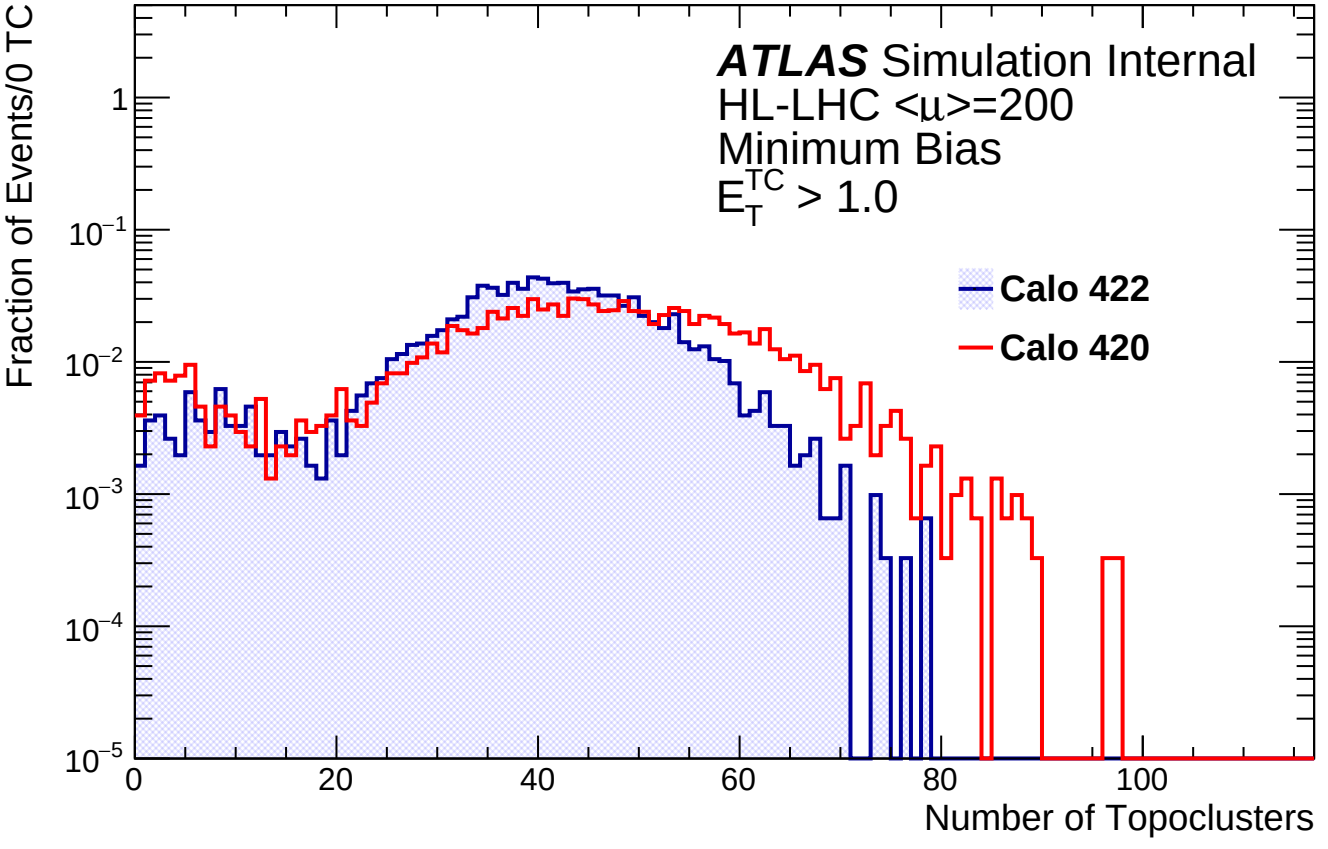


Cumulative Number of Topoclusters post SK

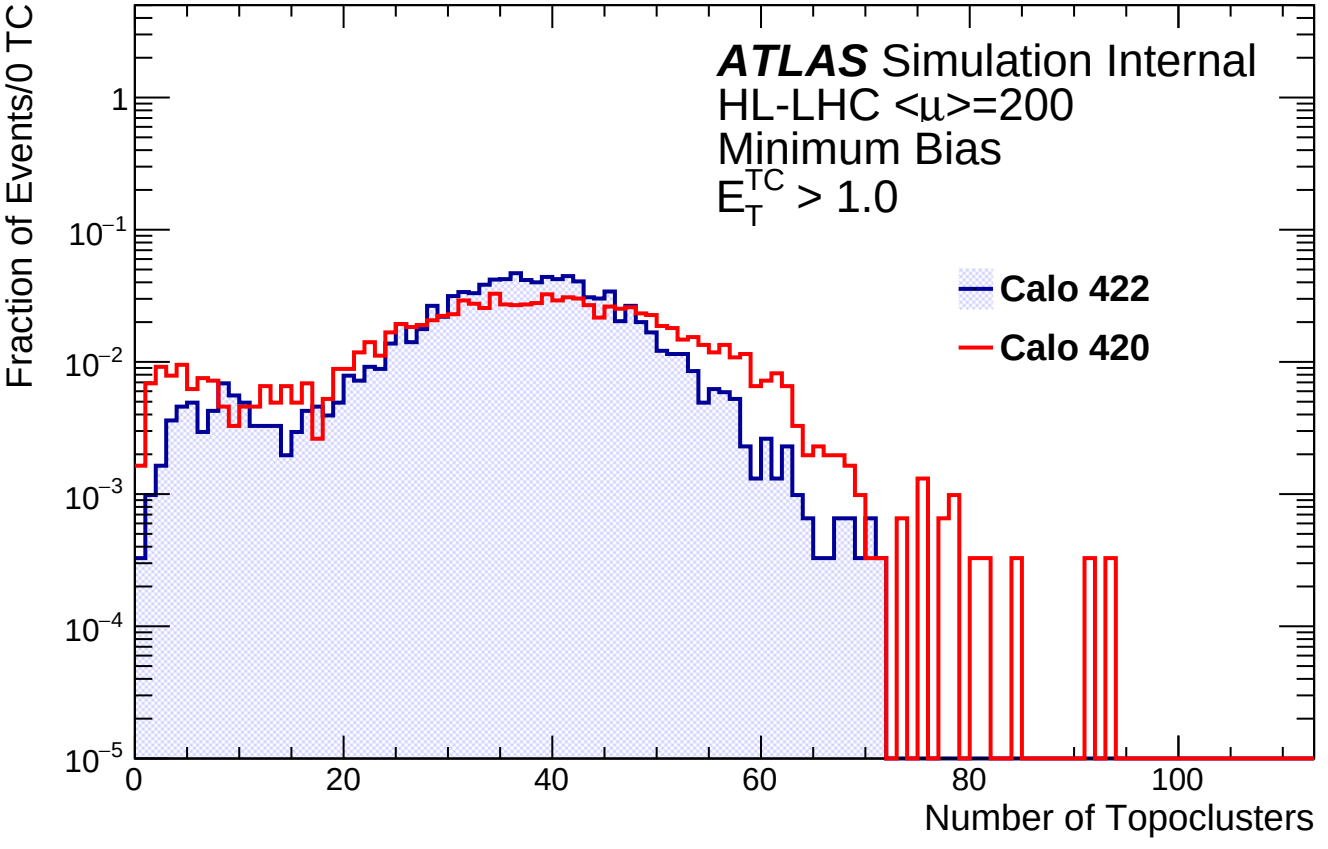



Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.0
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120

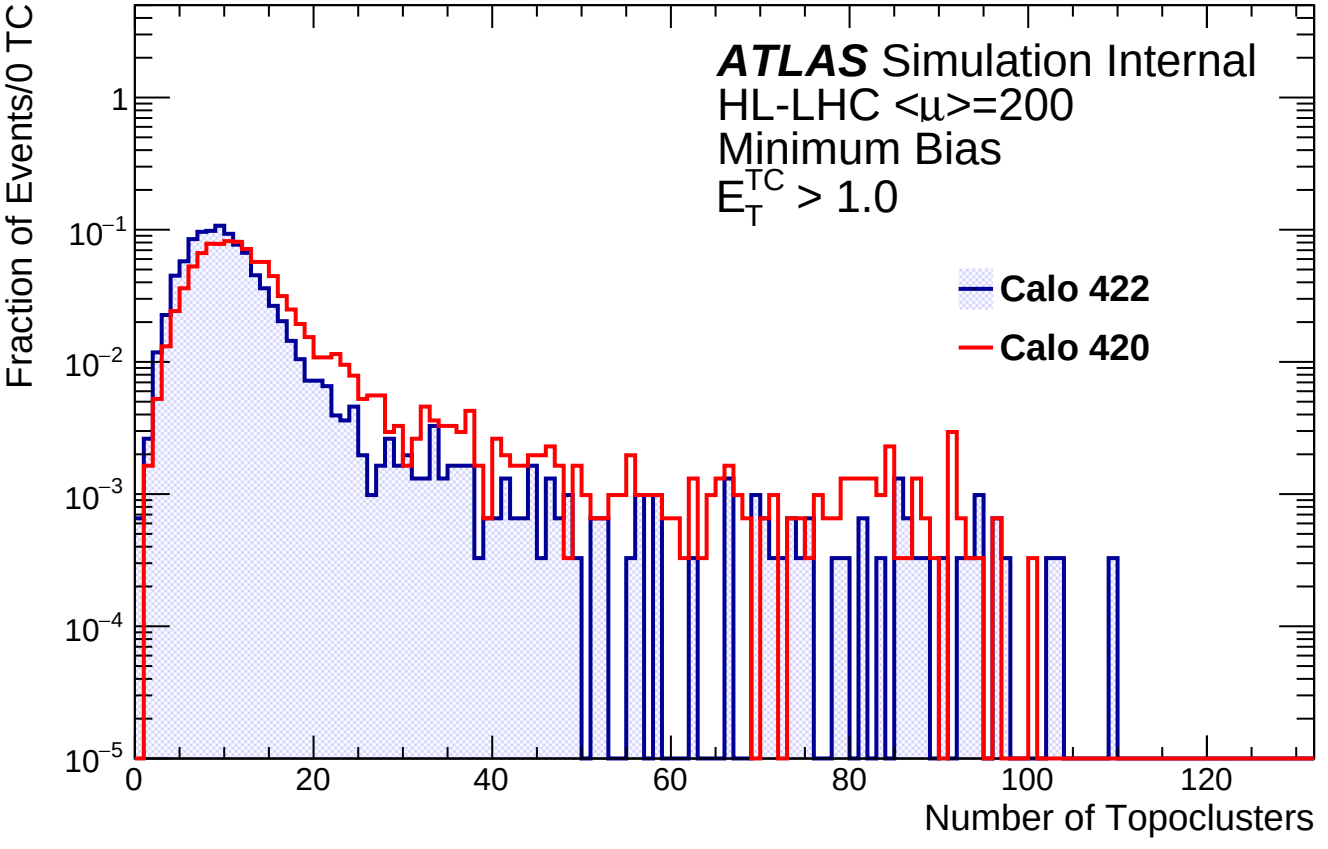
Number of Topoclusters post SK



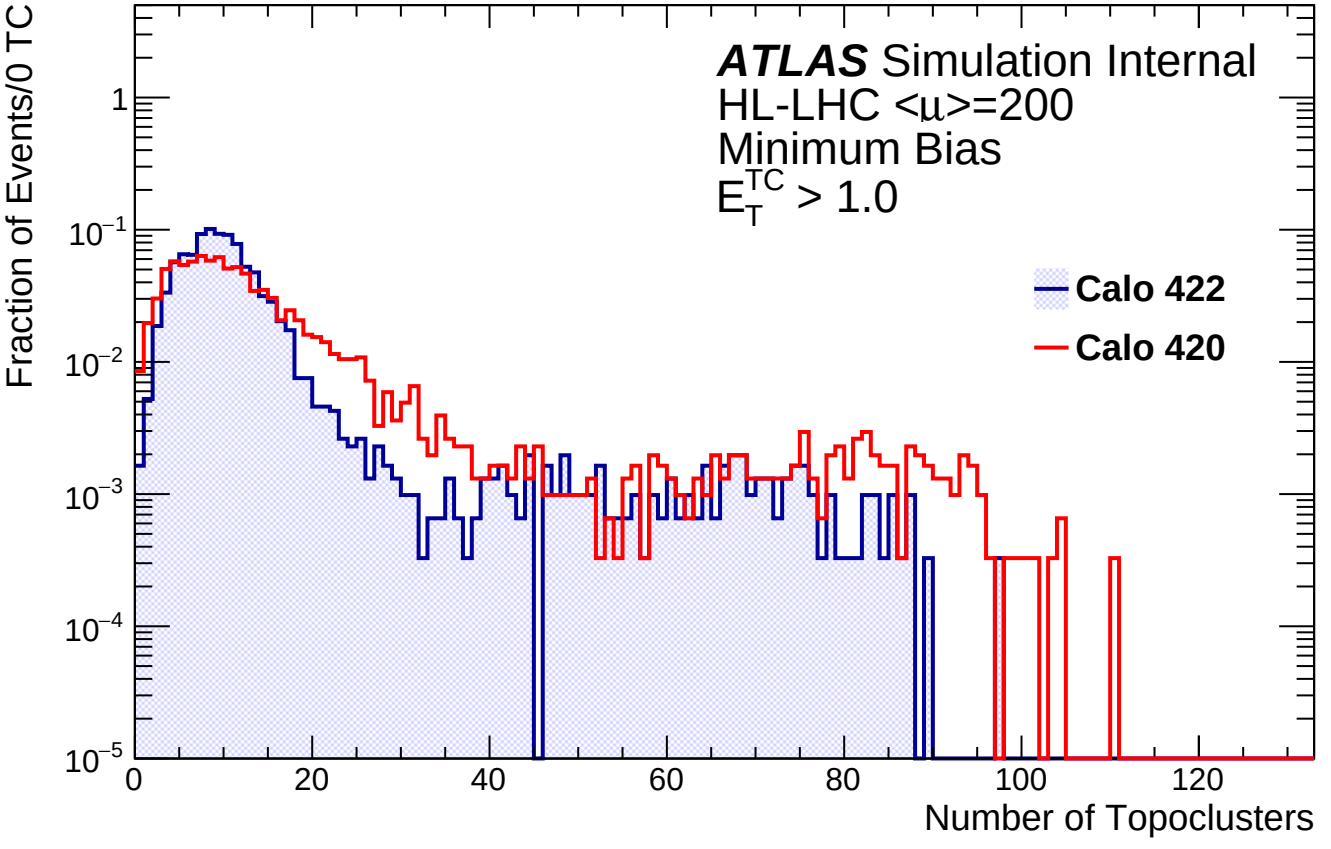
Number of Topoclusters post SK

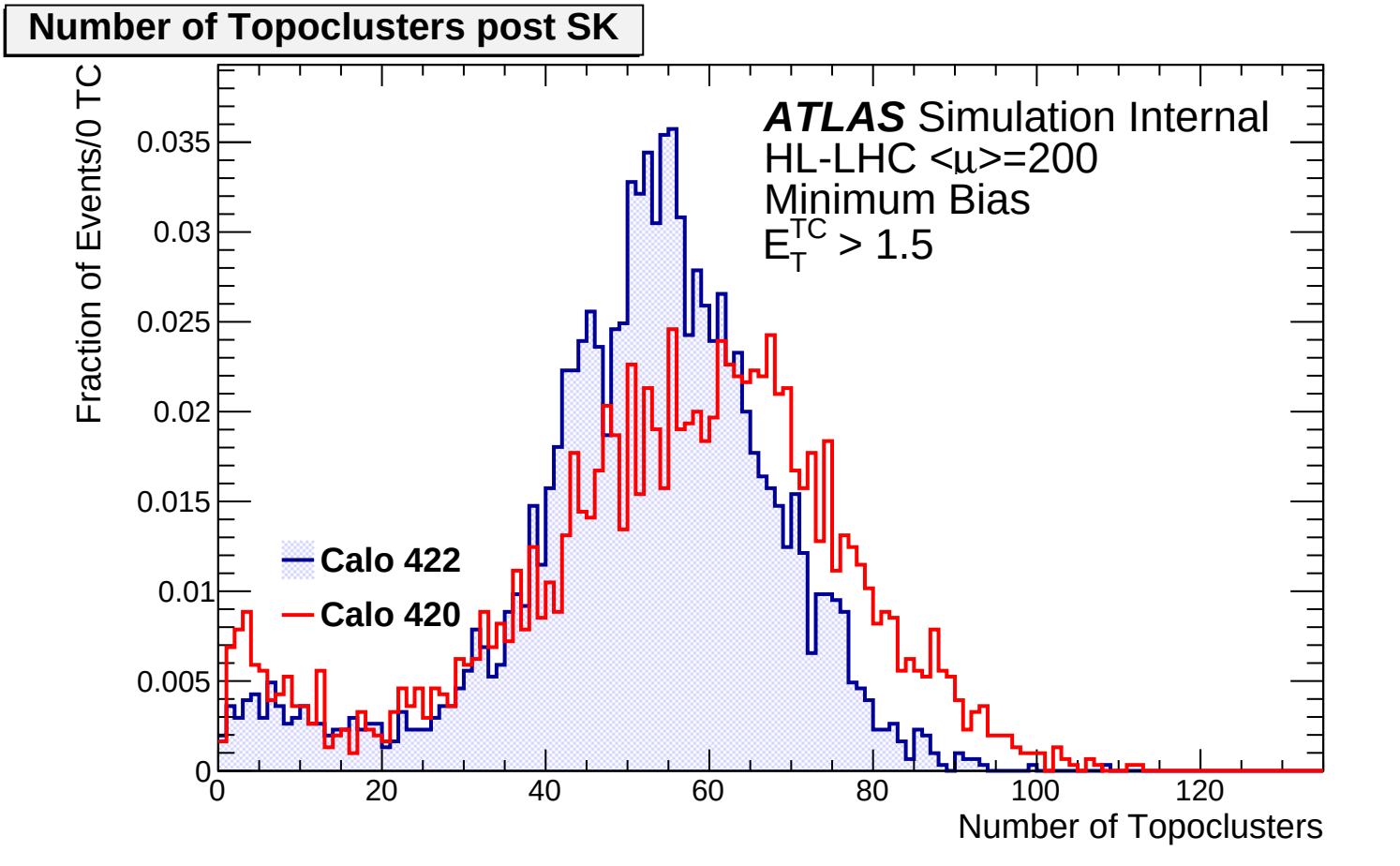


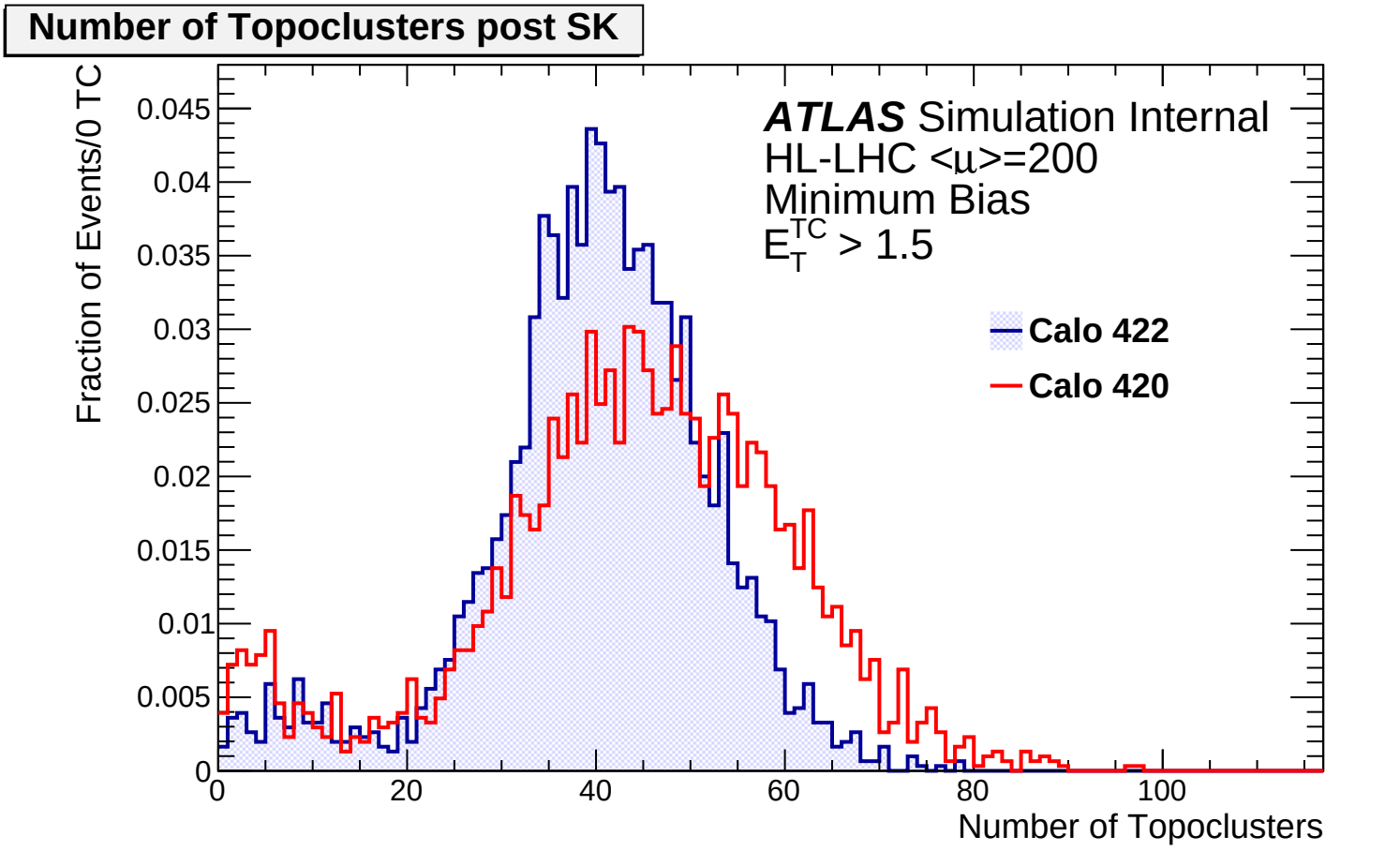
Number of Topoclusters post SK

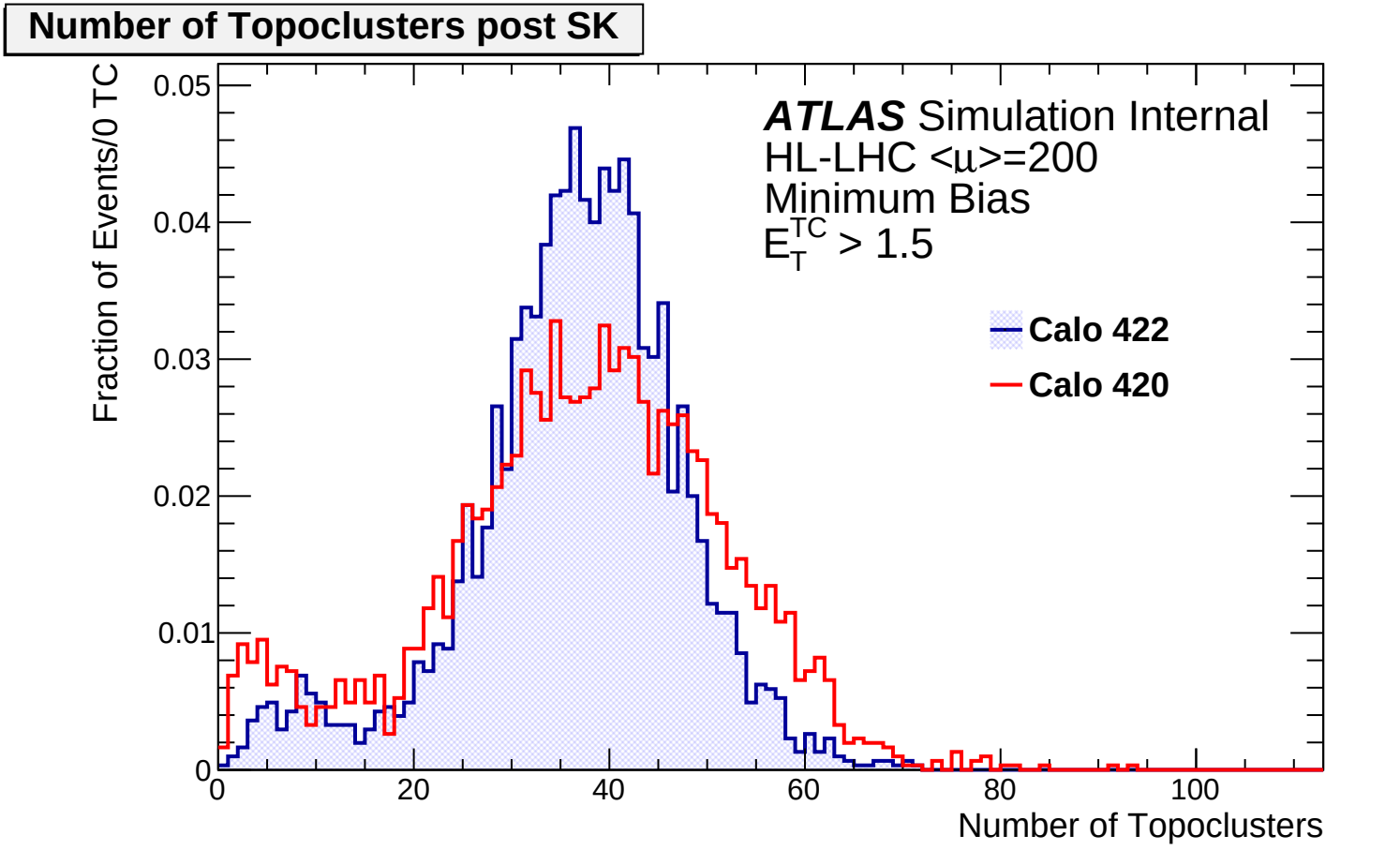


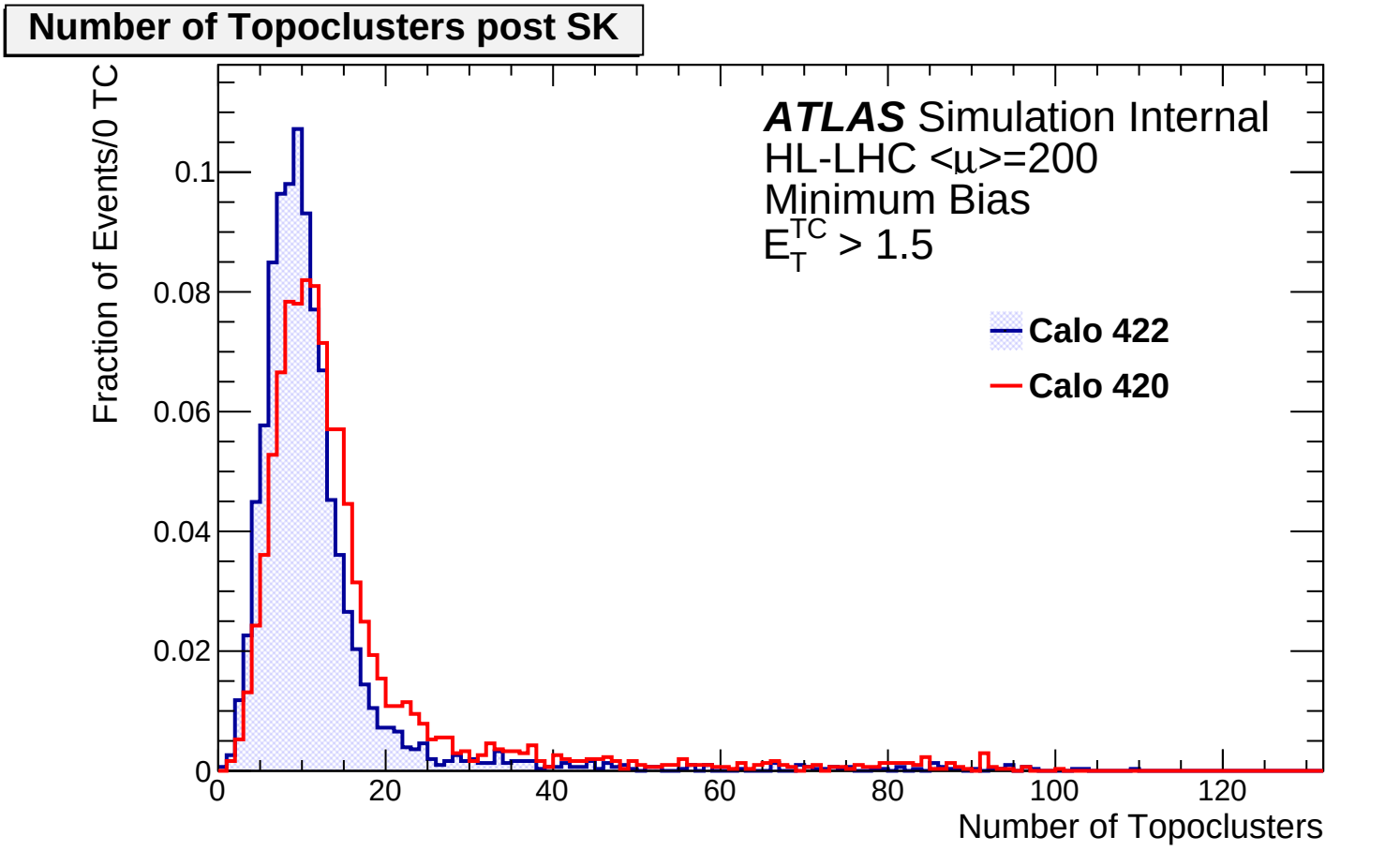
Number of Topoclusters post SK

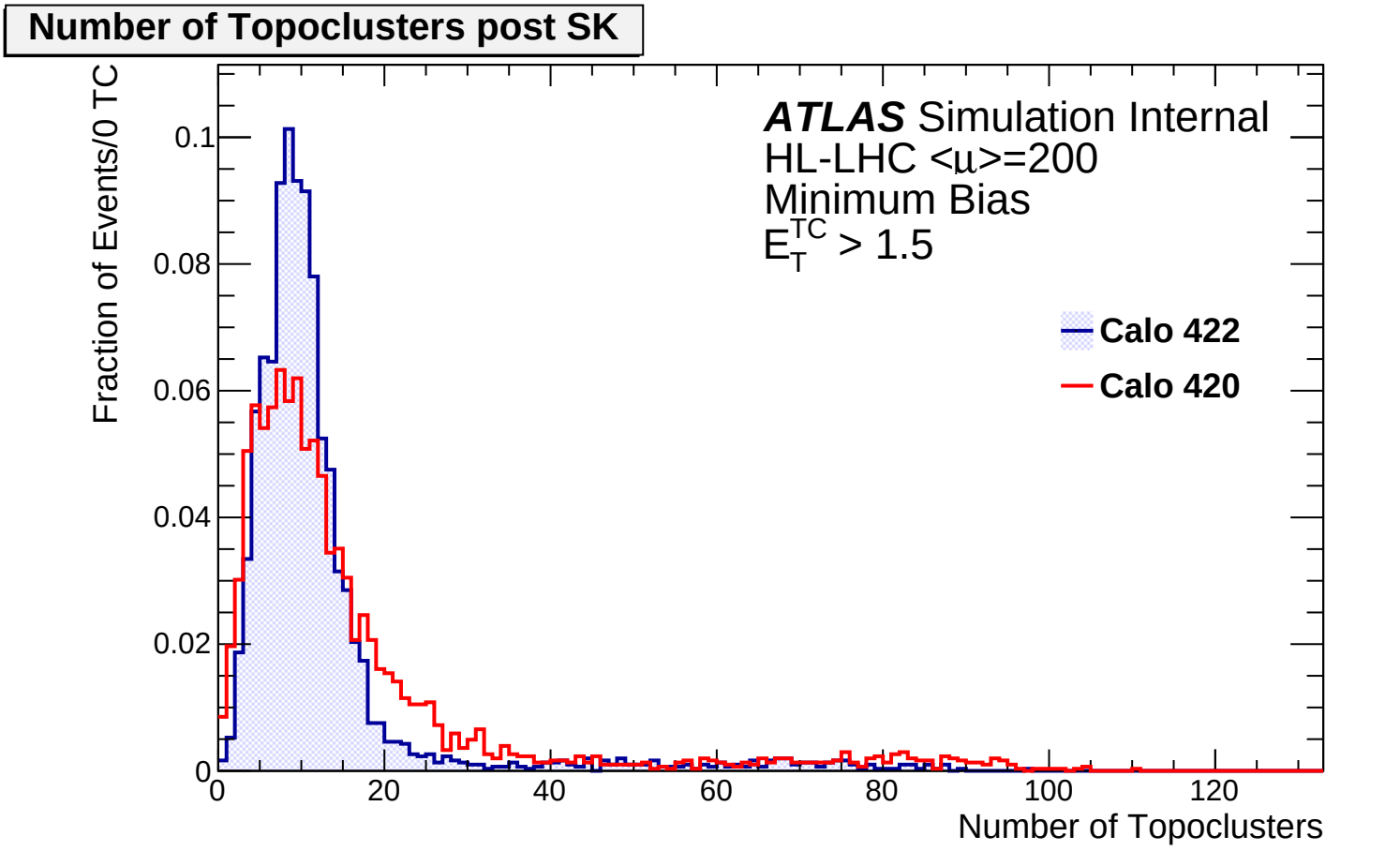



Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0
20
40
60
80
100
120

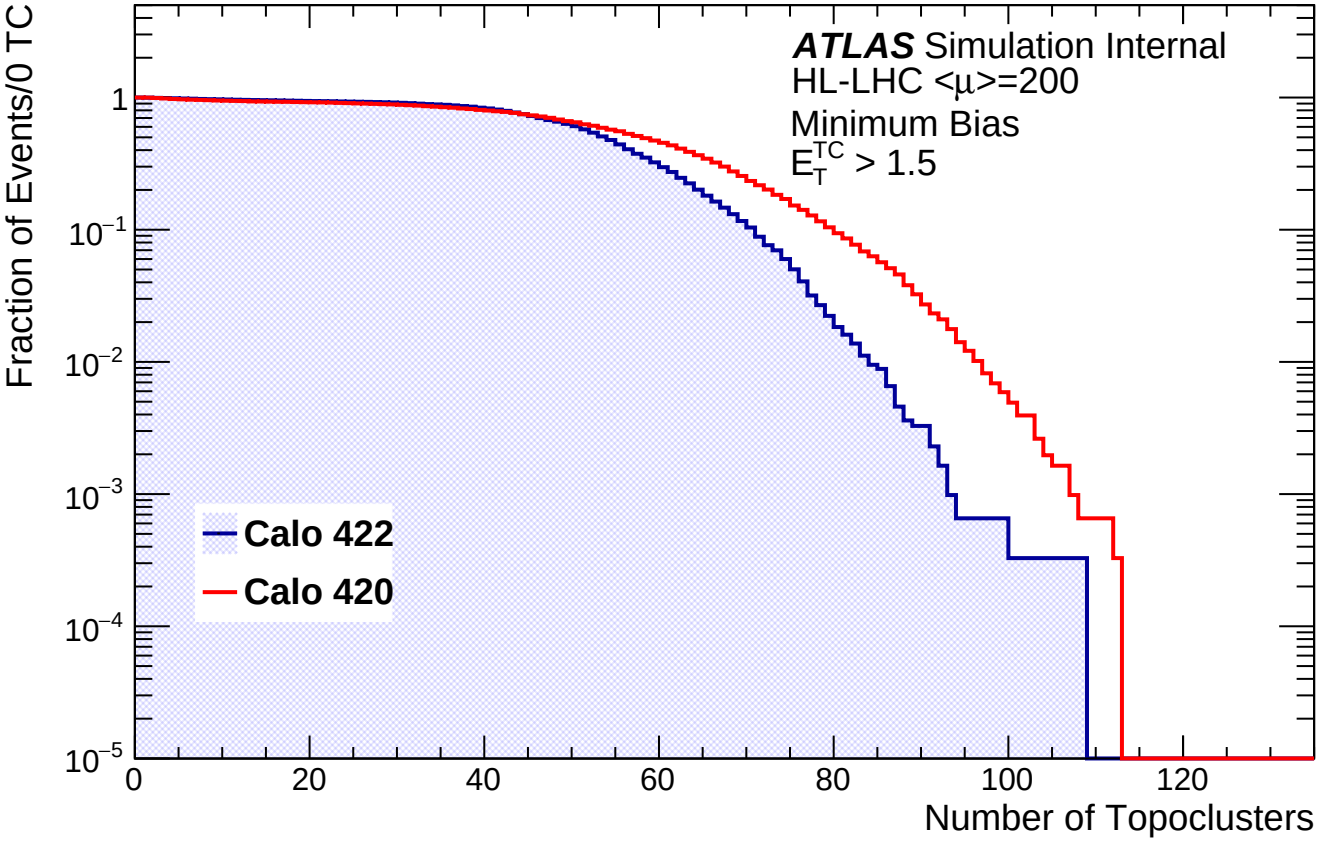

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0
20
40
60
80
100


Number of Topoclusters post SK
Fraction of Events/0 TC
0.05
0.04
0.03
0.02
0.01
0
0
20
40
60
80
100
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 1.5
Calo 422
Calo 420

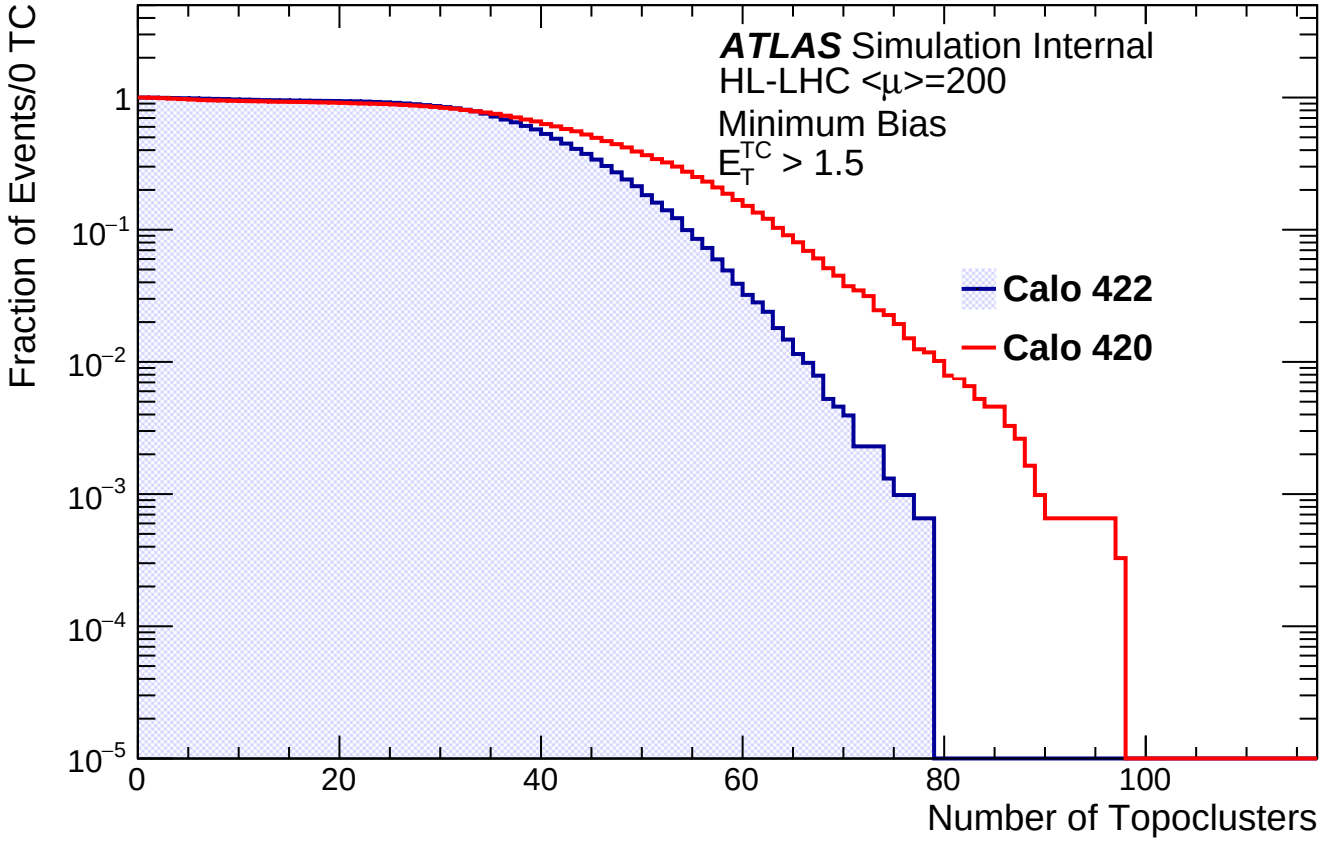

Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 1.5
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120


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/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120

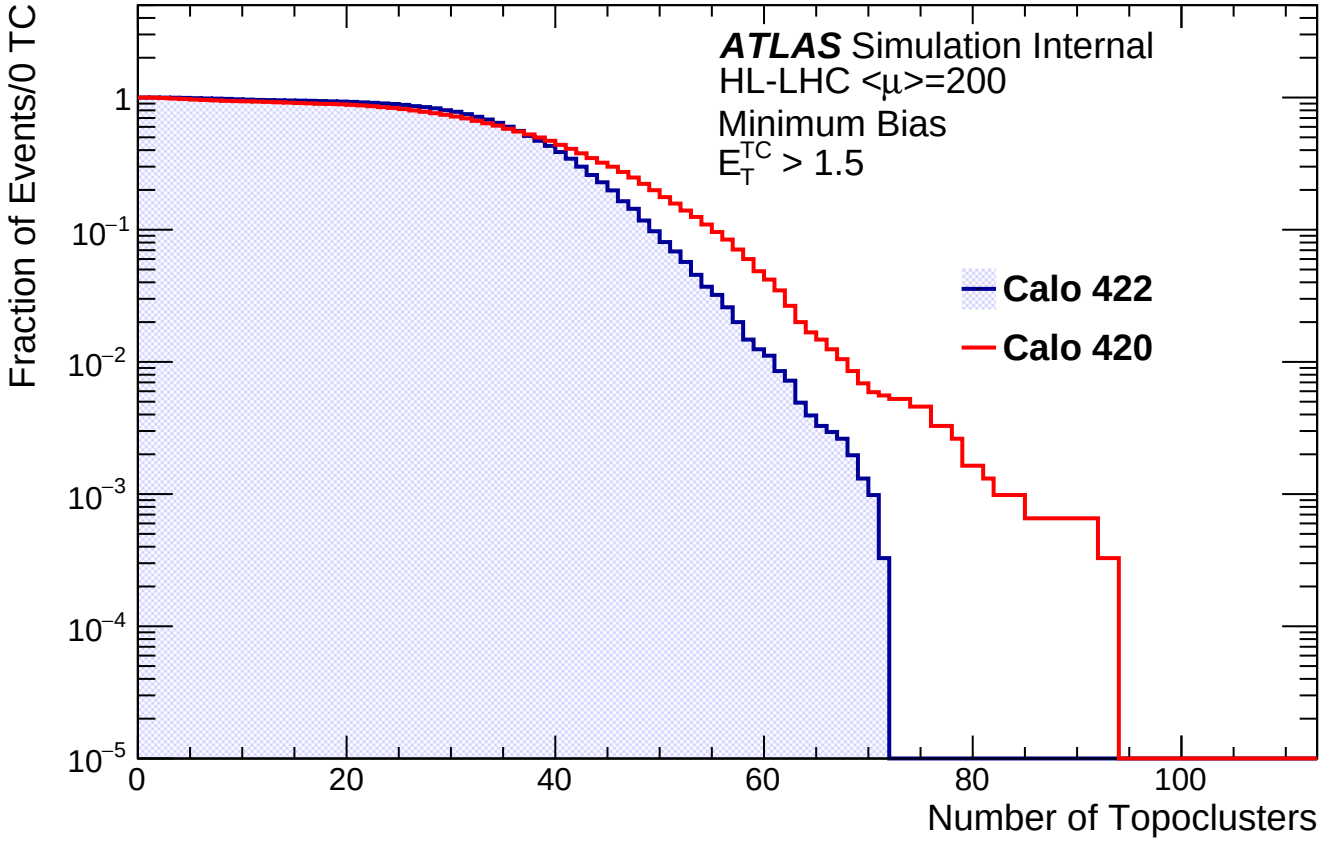
Cumulative Number of Topoclusters post SK



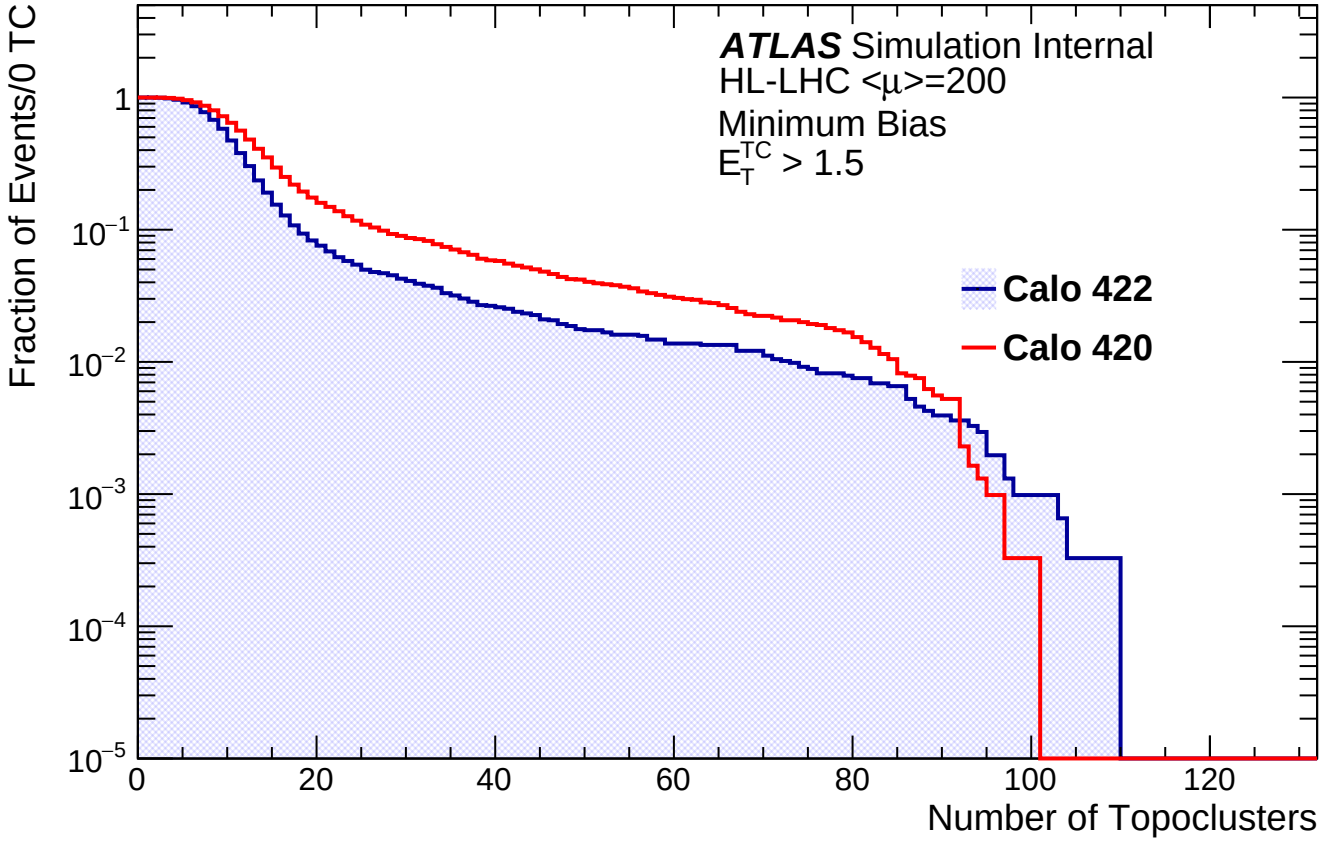
Cumulative Number of Topoclusters post SK



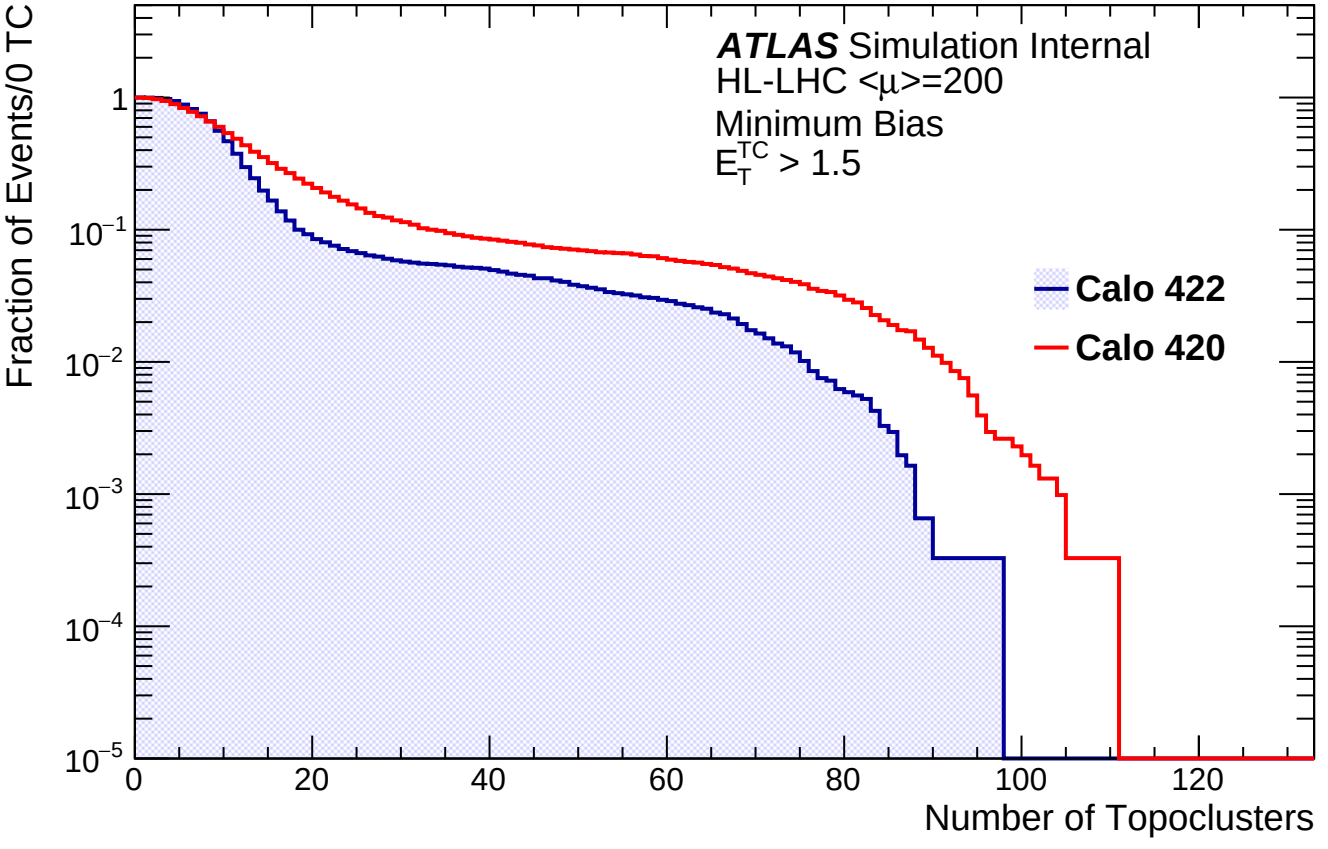
Cumulative Number of Topoclusters post SK

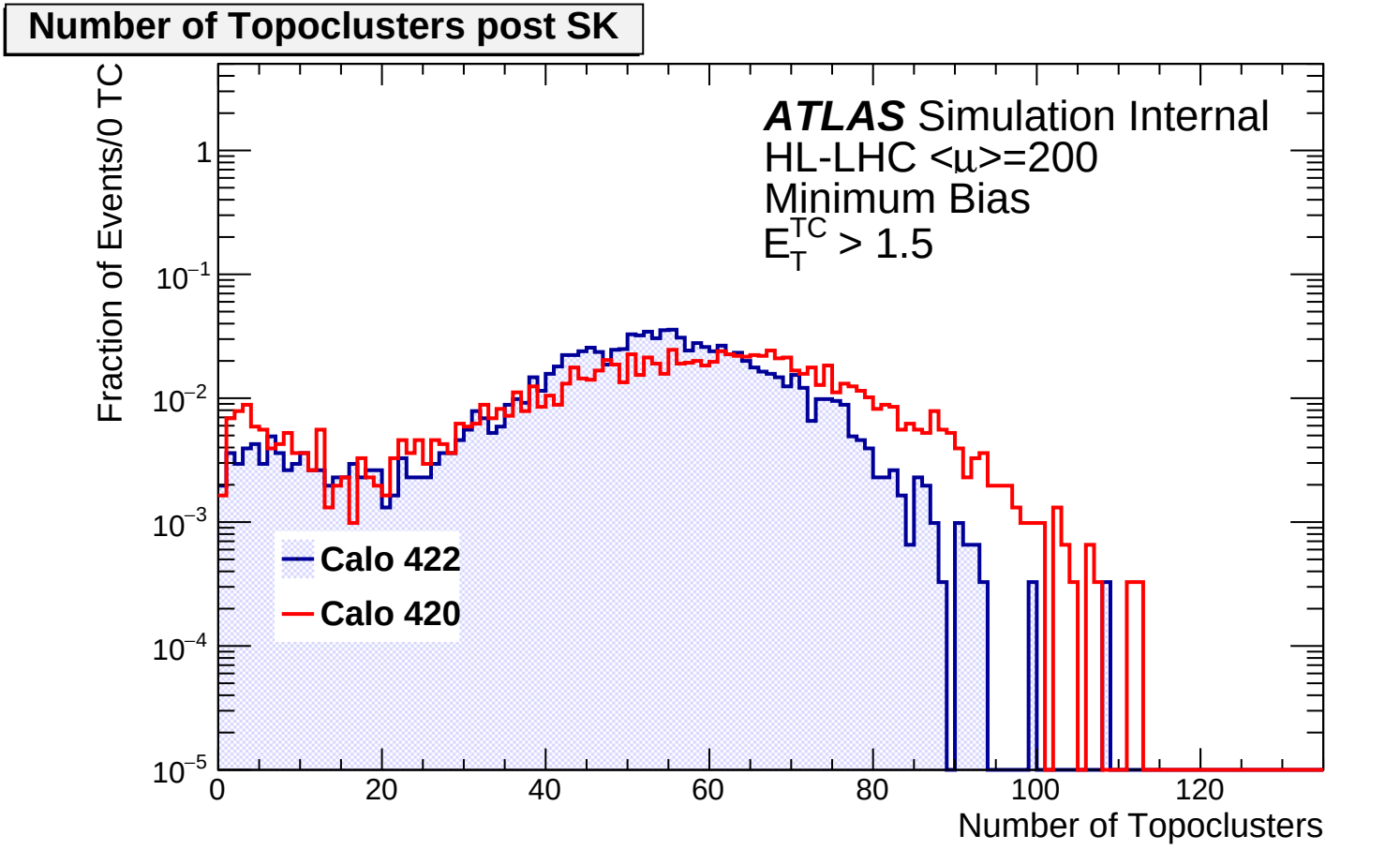


Cumulative Number of Topoclusters post SK

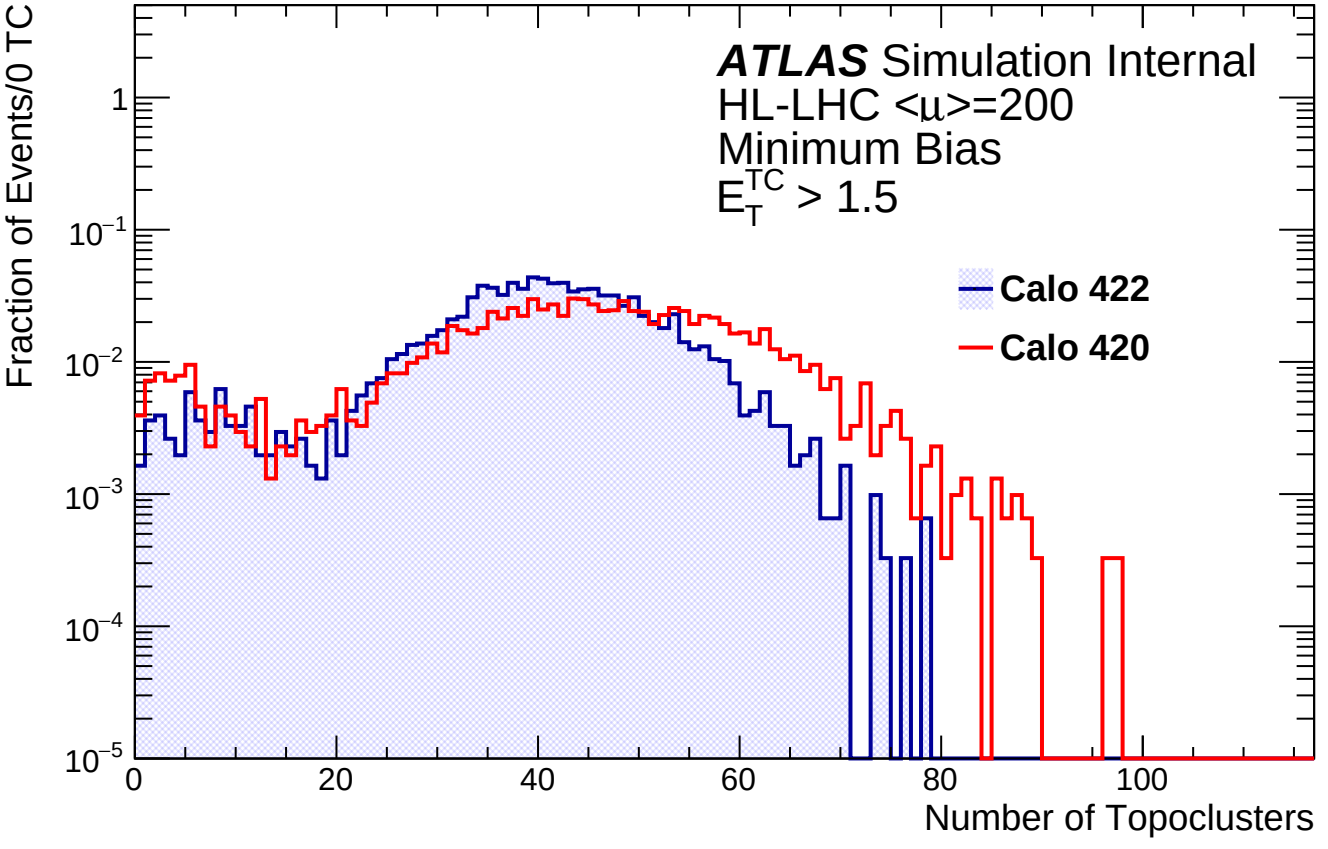


Cumulative Number of Topoclusters post SK

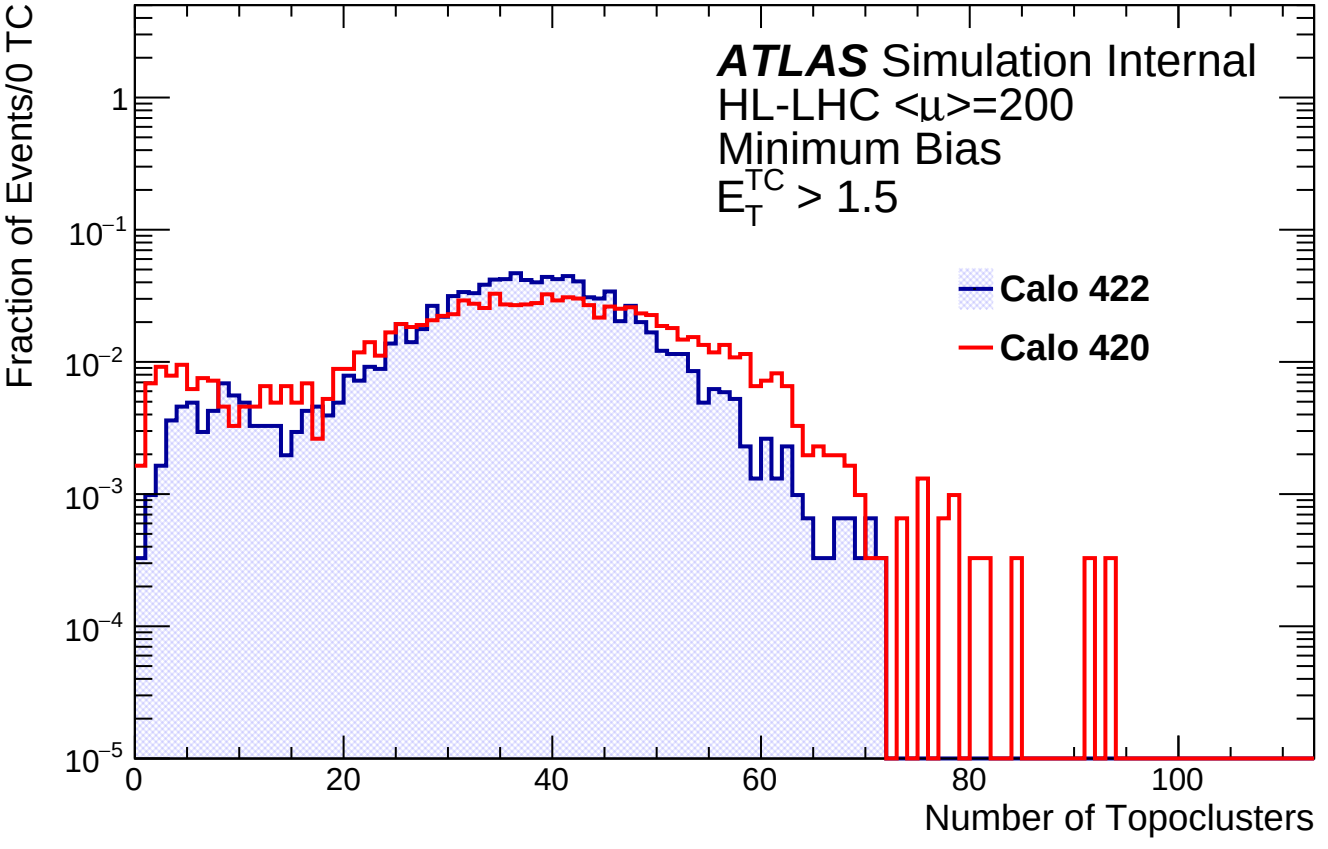



Number of Topoclusters post SK
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^{TC} > 1.5
Calo 422
Calo 420
Fraction of Events/0 TC
Number of Topoclusters
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
20
40
60
80
100
120

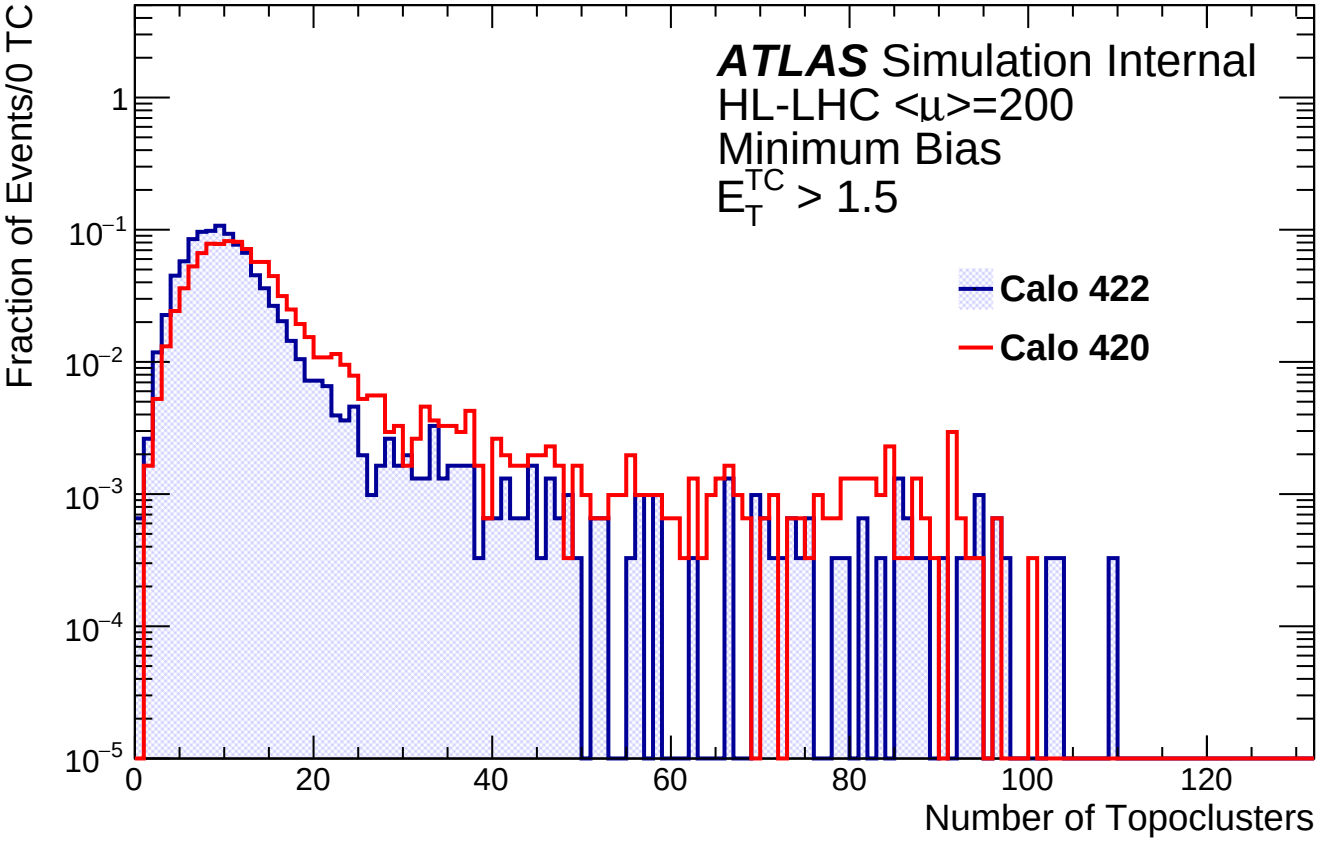
Number of Topoclusters post SK



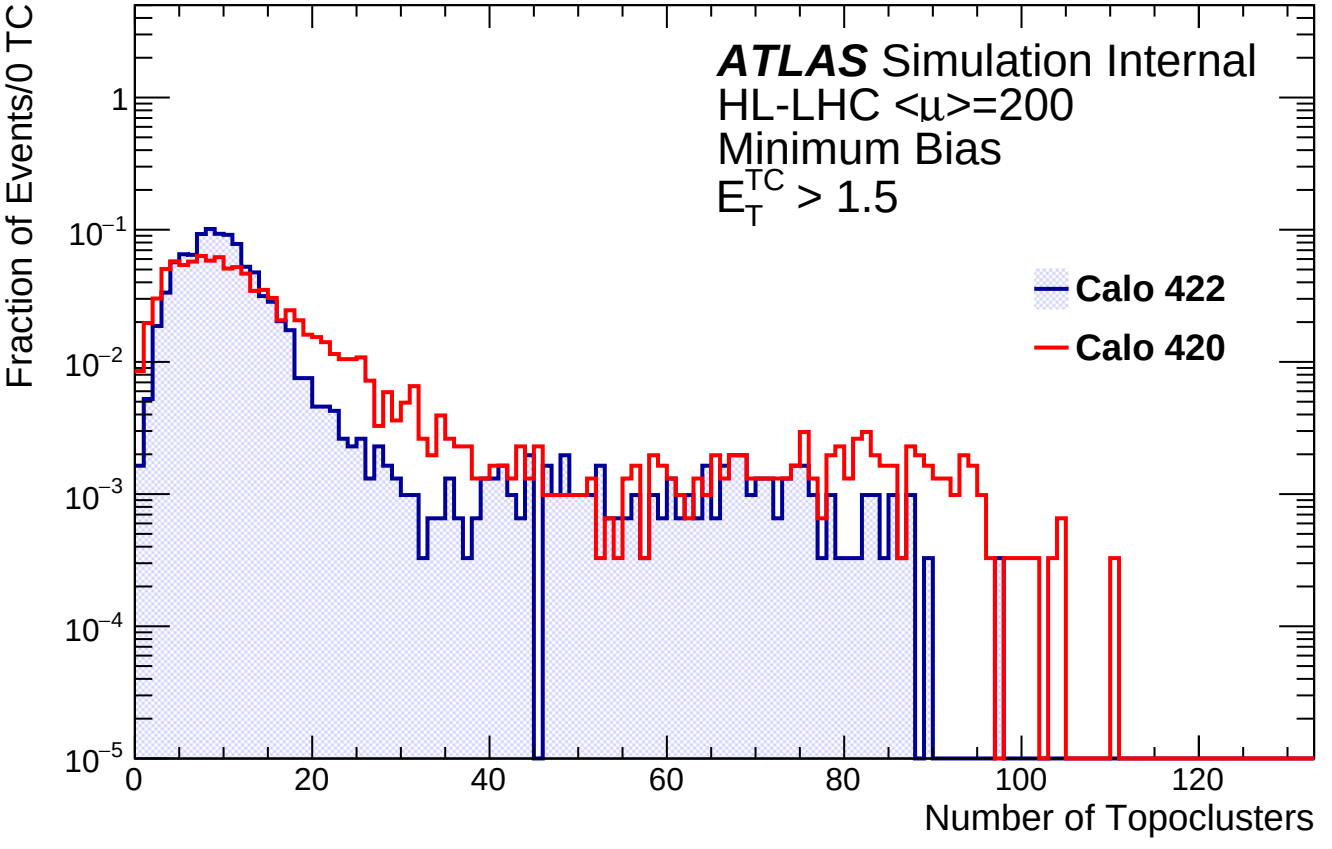
Number of Topoclusters post SK

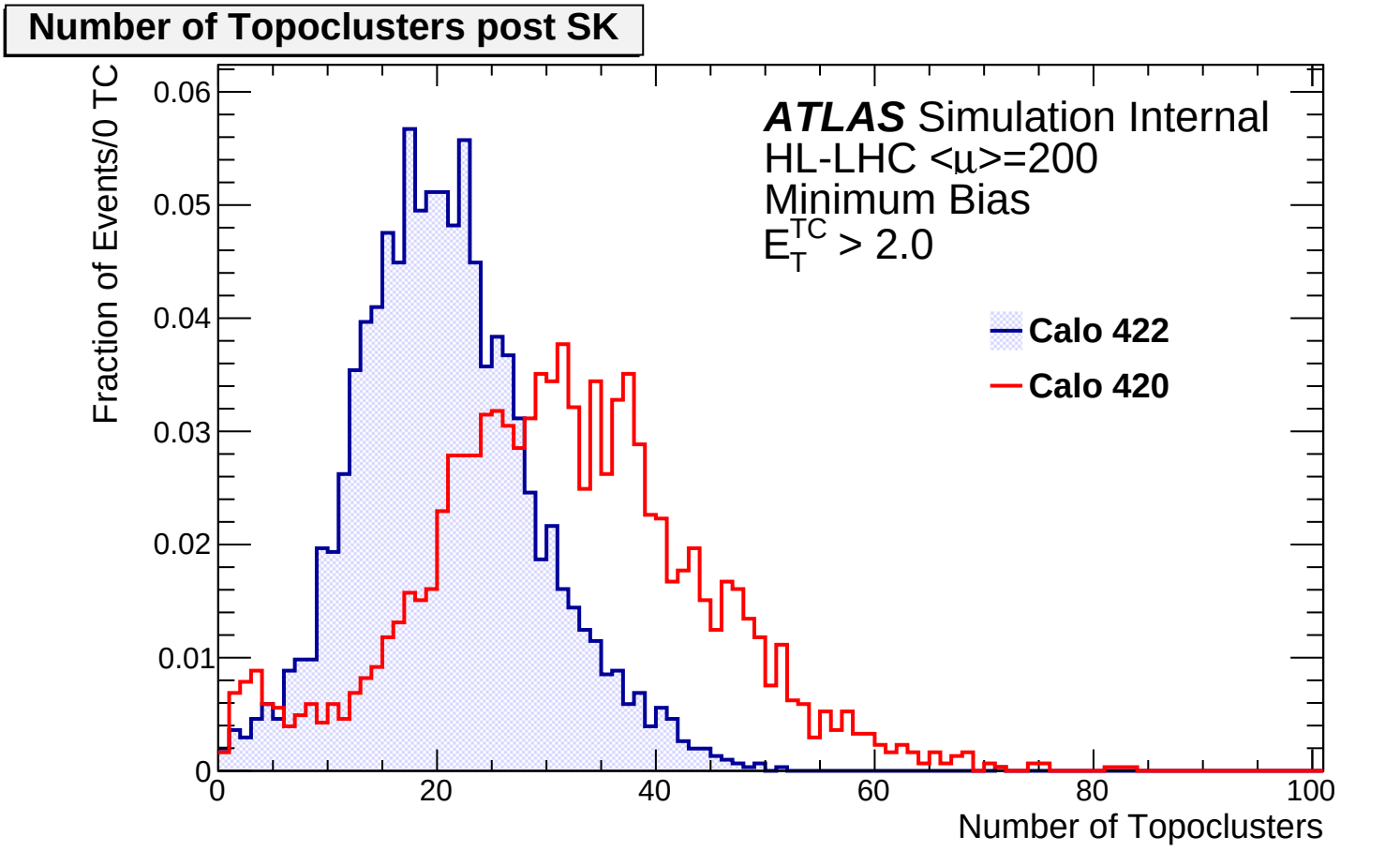


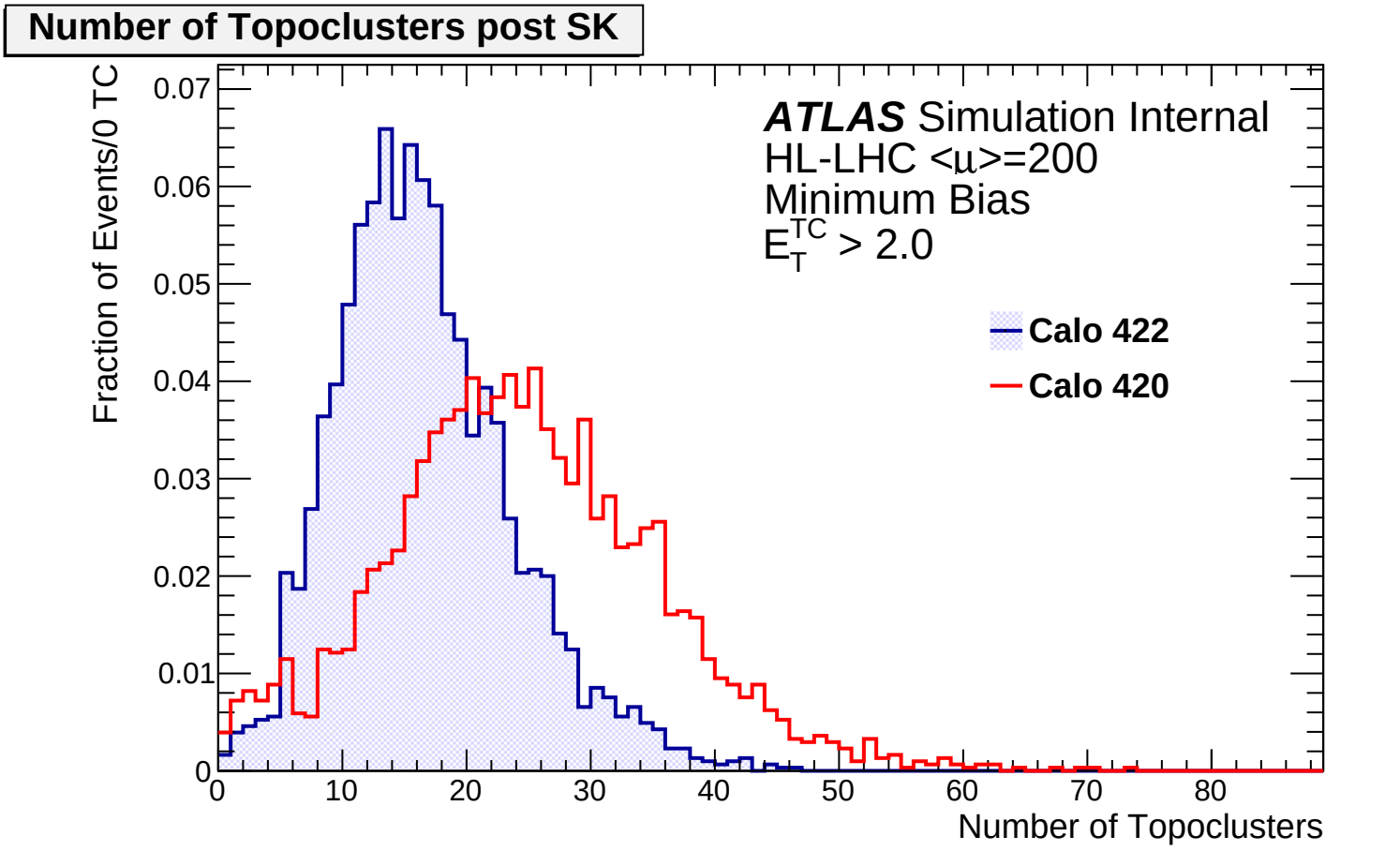
Number of Topoclusters post SK

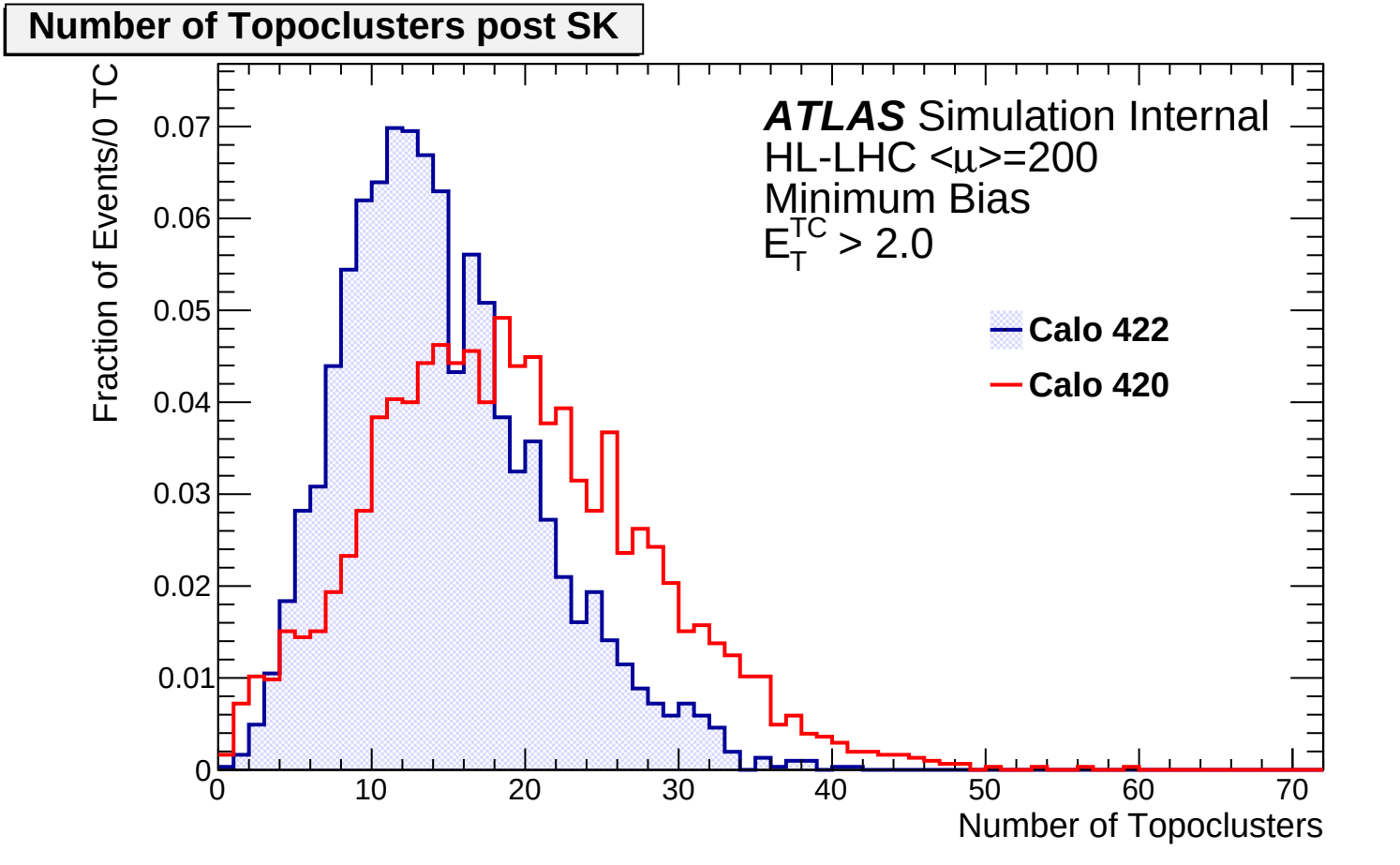


Number of Topoclusters post SK




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/0 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0
20
40
60
80
100


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/0 TC
Number of Topoclusters
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0
10
20
30
40
50
60
70
80


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/0 TC
Number of Topoclusters
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0.01
0.02
0.03
0.04
0.05
0.06
0.07
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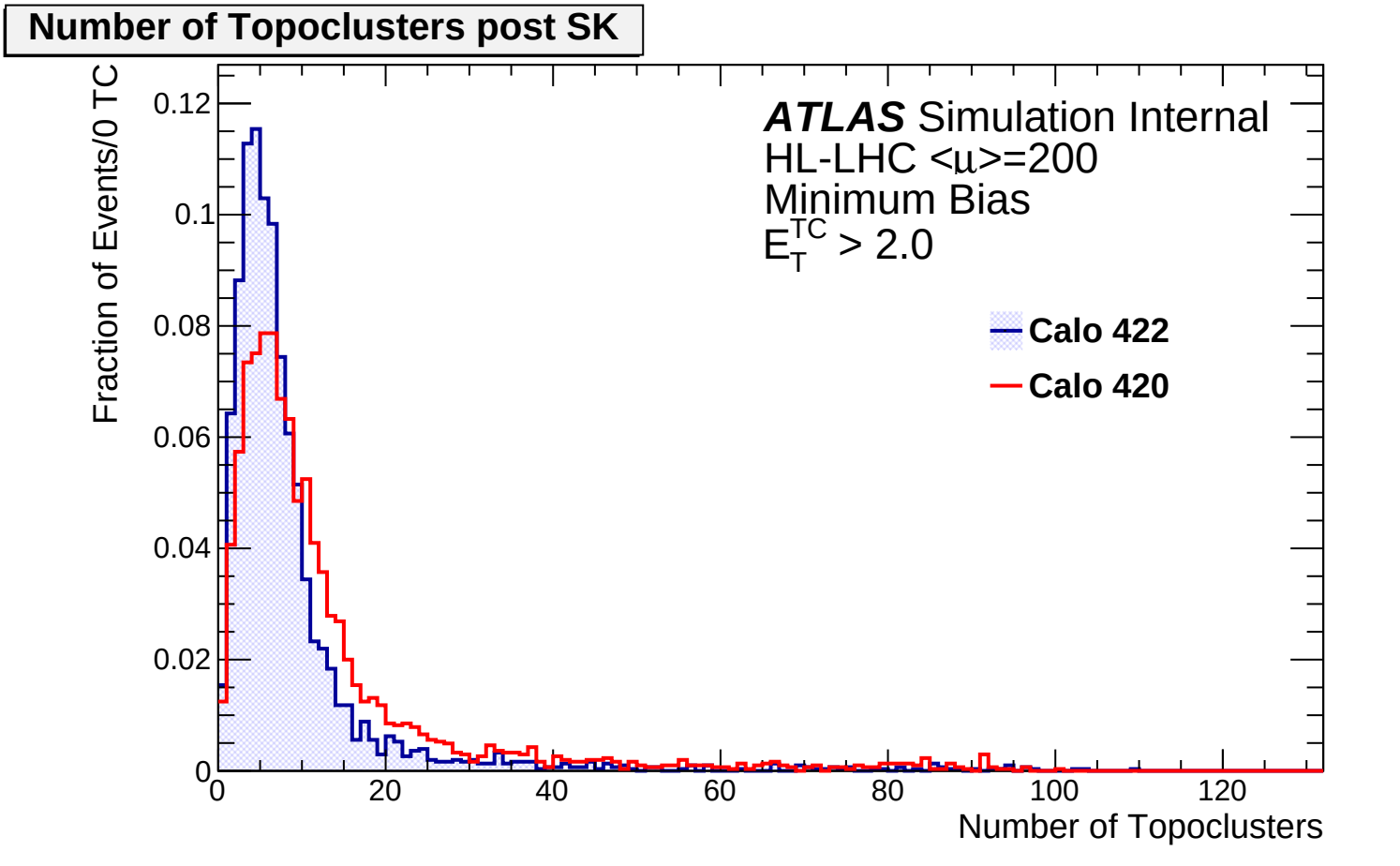
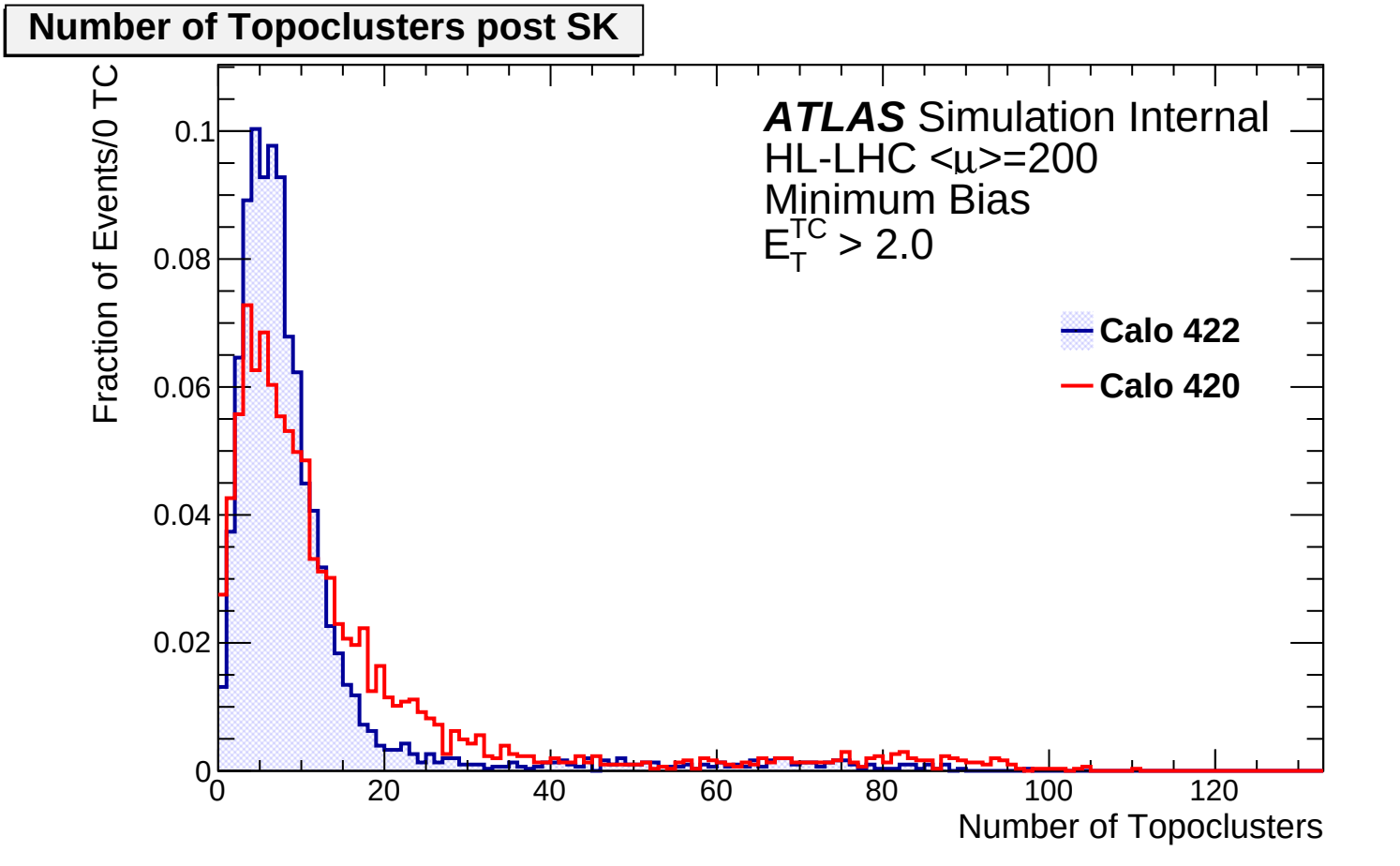
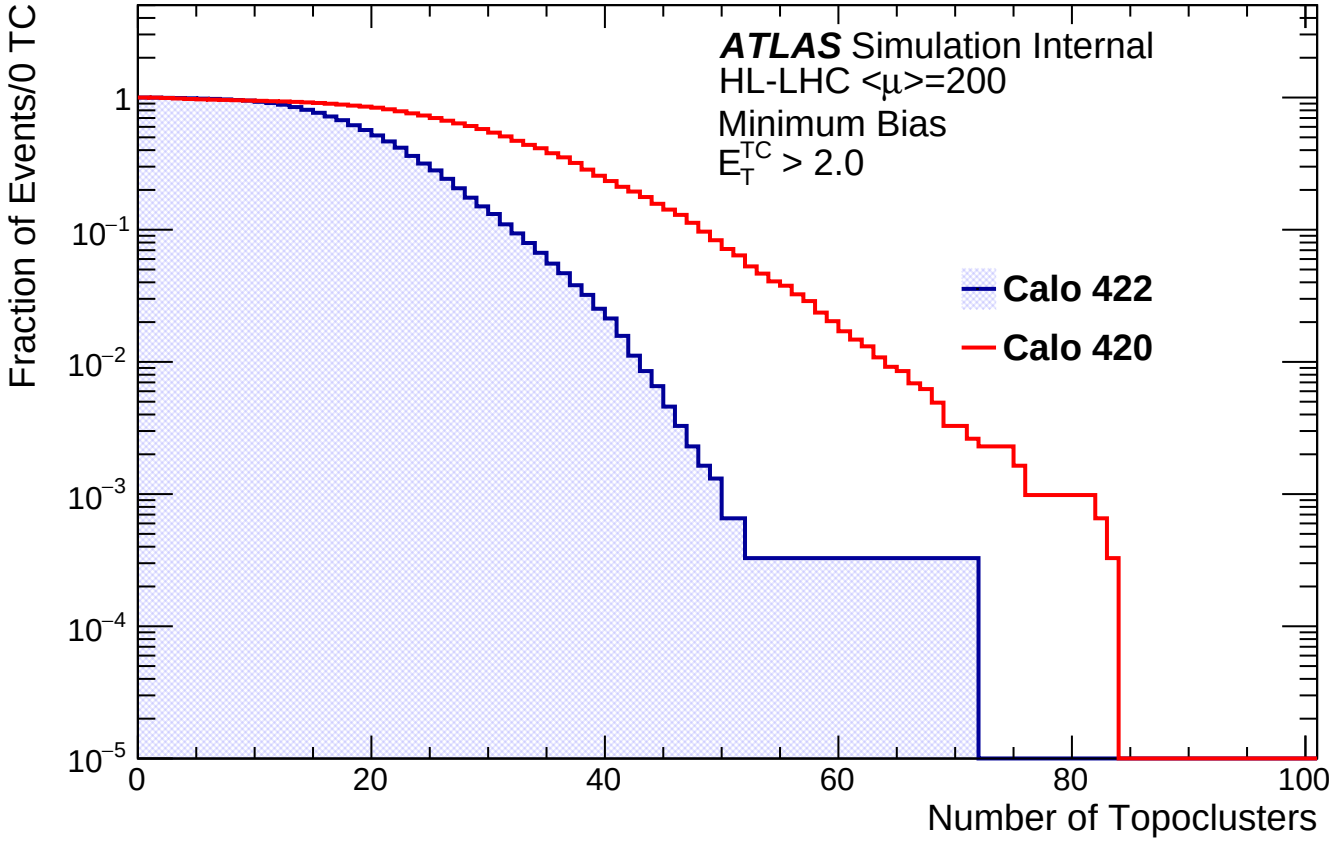
40
50
60
70

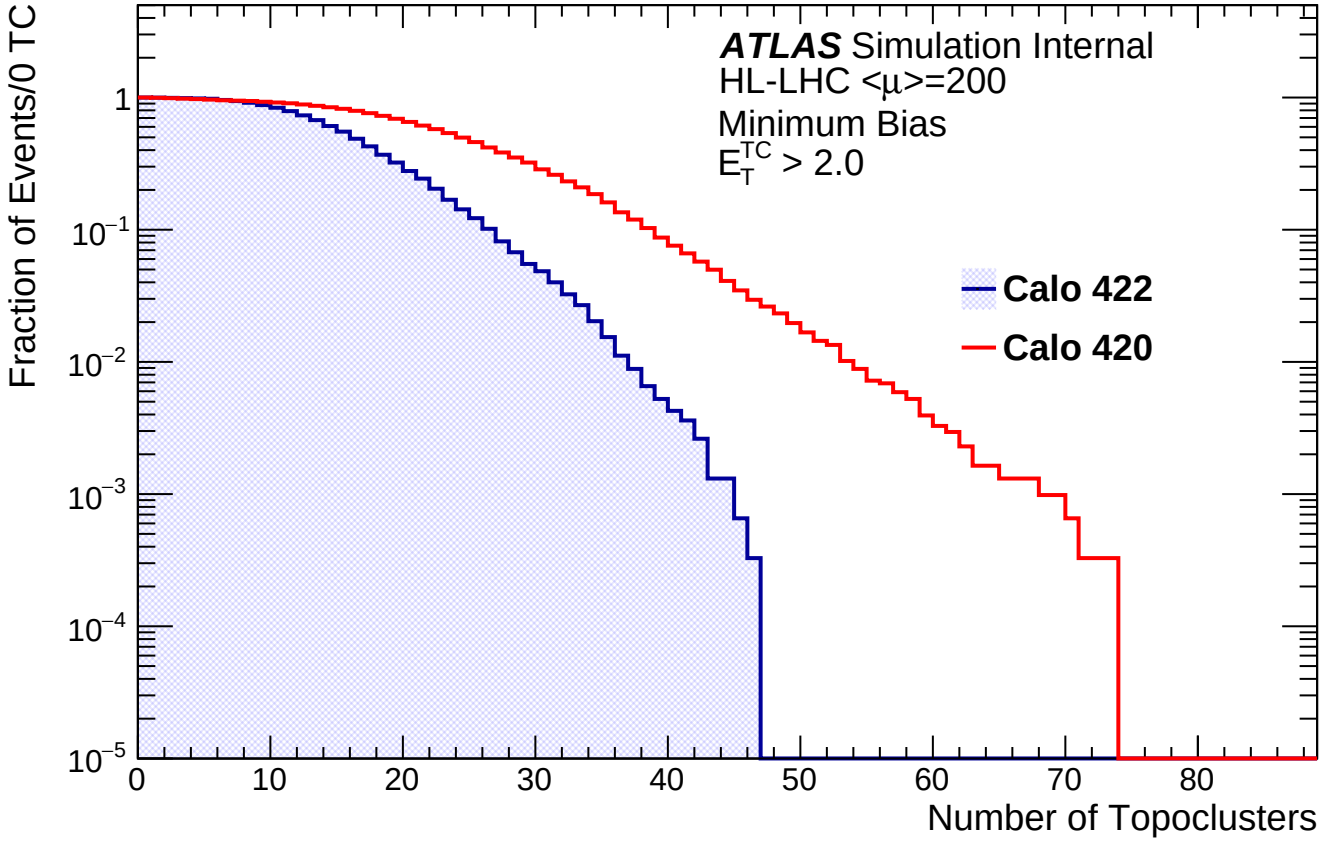

Number of Topoclusters post SK
Fraction of Events/0 TC
0.12
0.1
0.08
0.06
0.04
0.02
0
0
20
40
60
80
100
120
Number of Topoclusters
ATLAS Simulation Internal
HL-LHC <μ>=200
Minimum Bias
E_T^TC > 2.0
Calo 422
Calo 420


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/0 TC
Number of Topoclusters
0
0.02
0.04
0.06
0.08
0.1
0
20
40
60
80
100
120

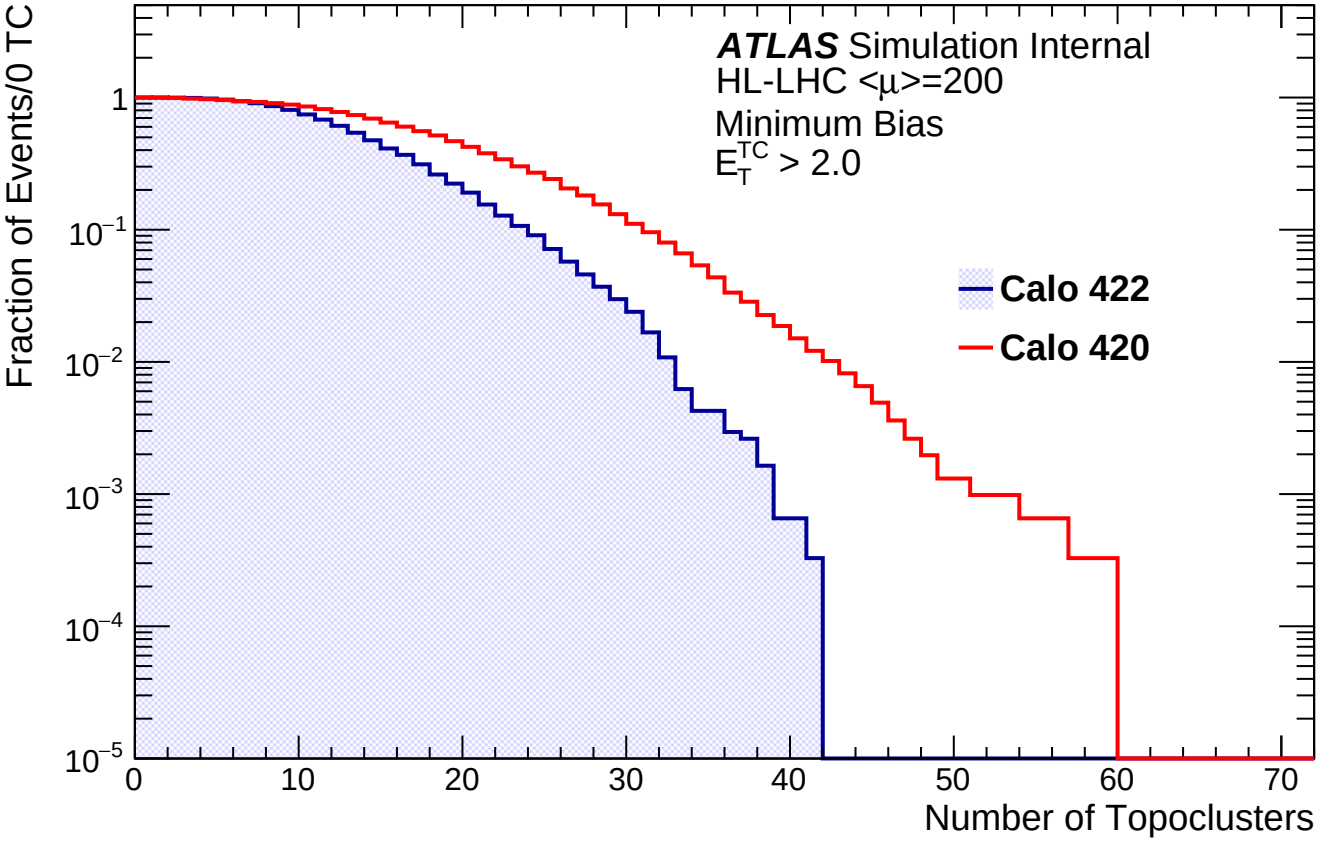
Cumulative Number of Topoclusters post SK



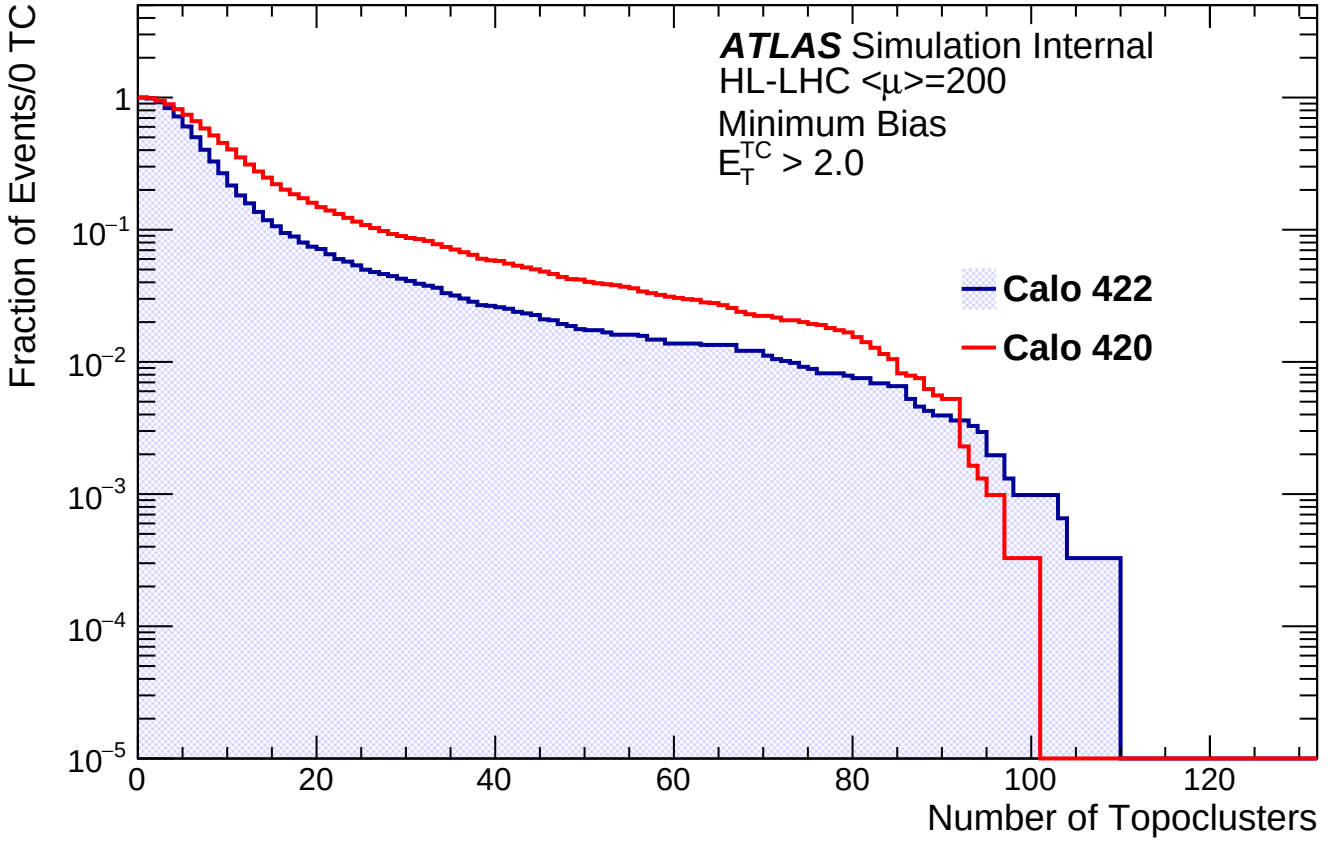
Cumulative Number of Topoclusters post SK



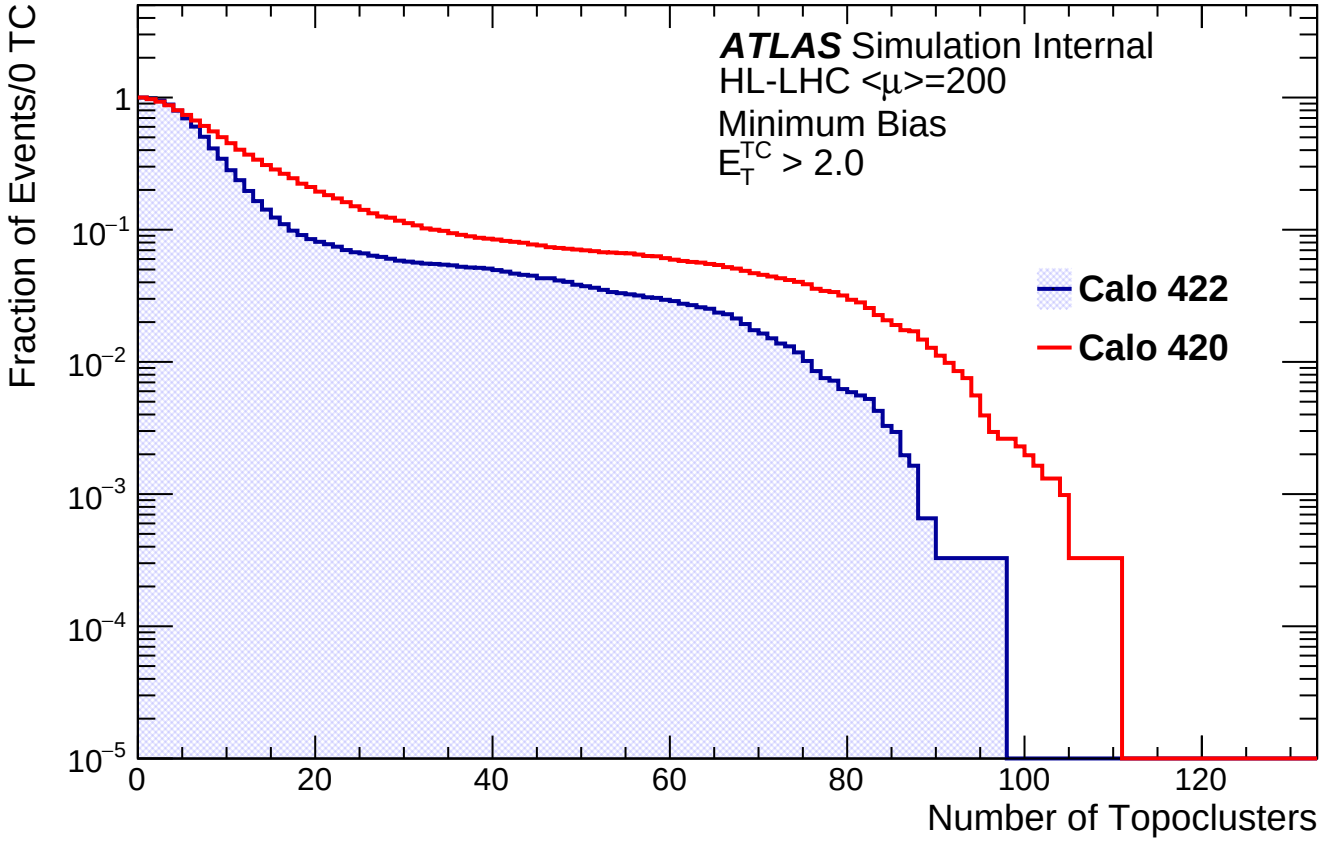
Cumulative Number of Topoclusters post SK



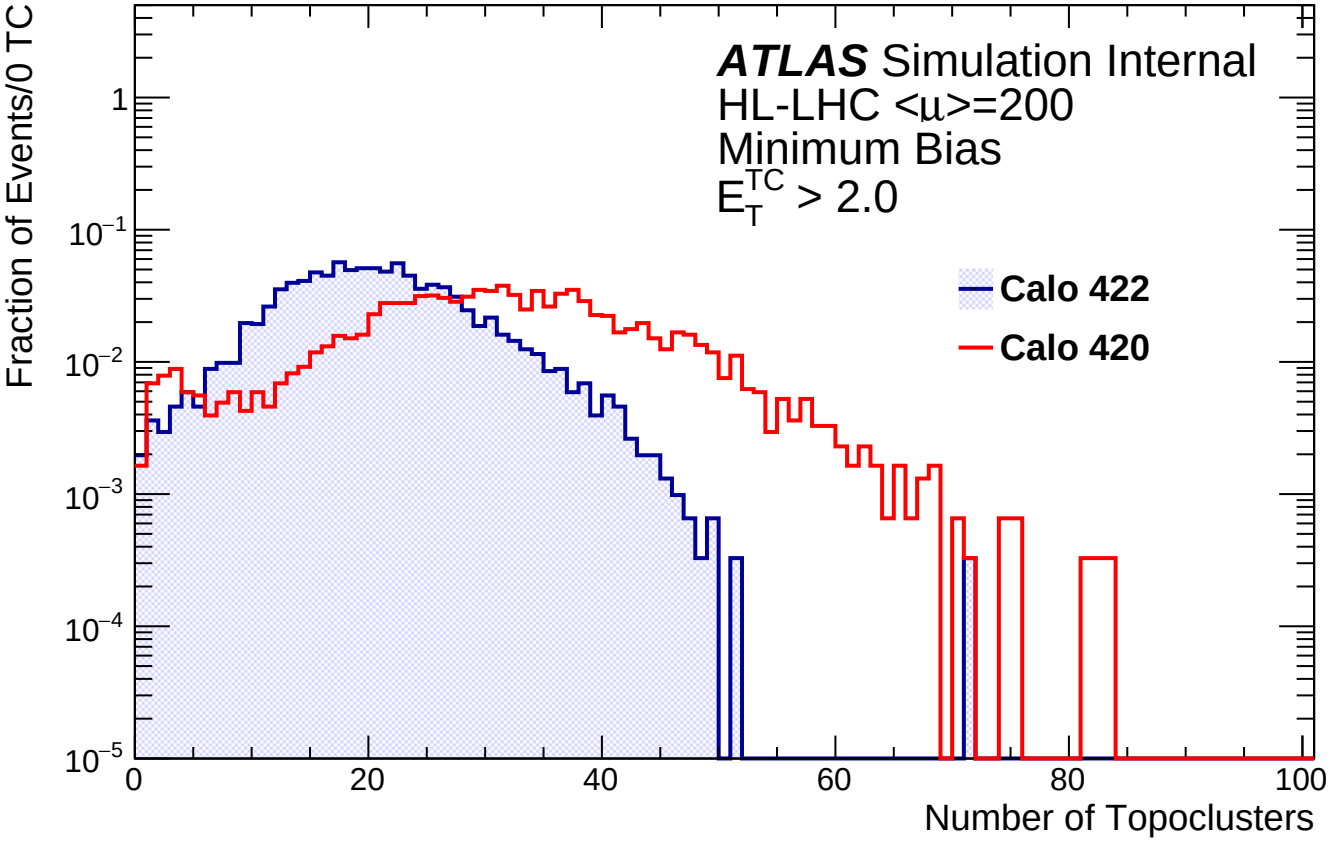
Cumulative Number of Topoclusters post SK



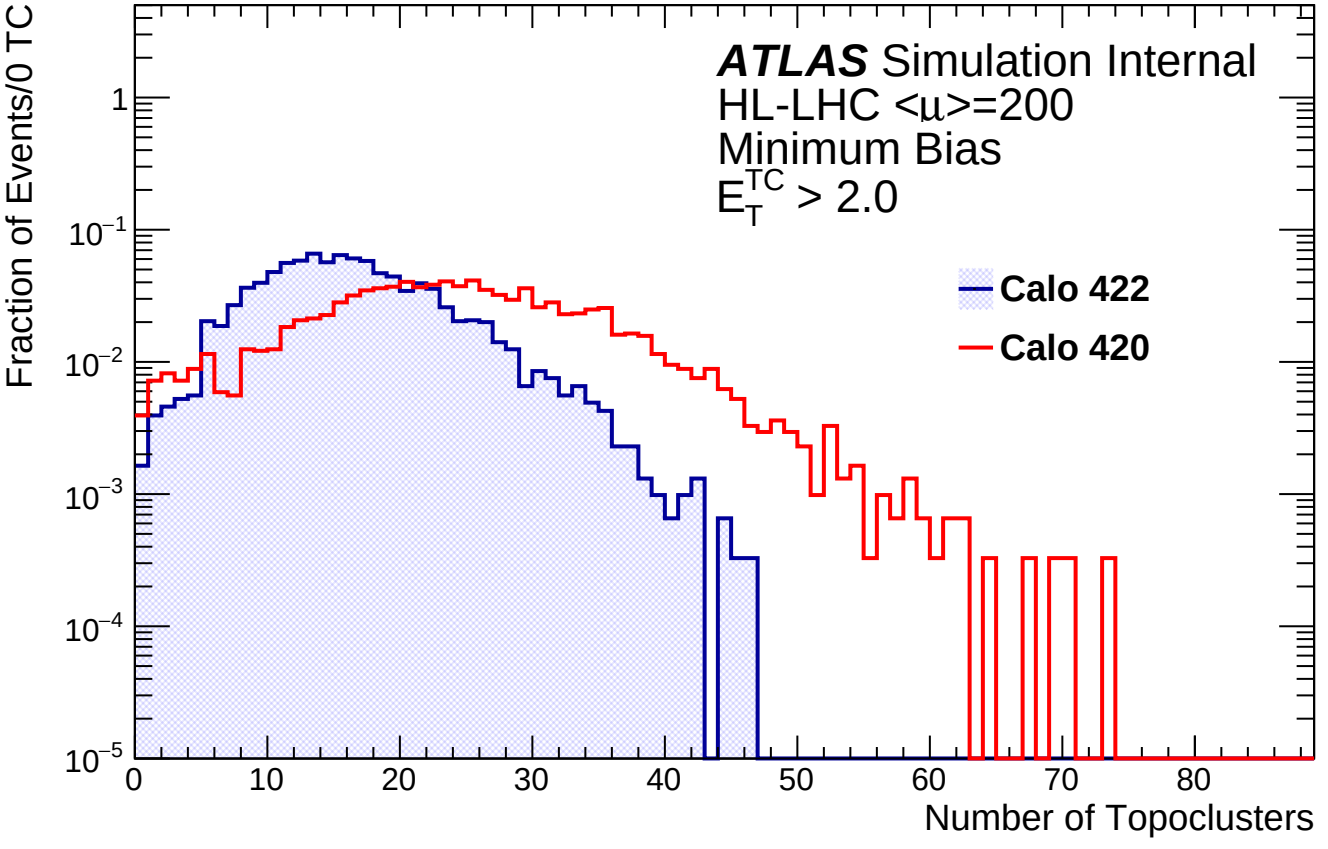
Cumulative Number of Topoclusters post SK



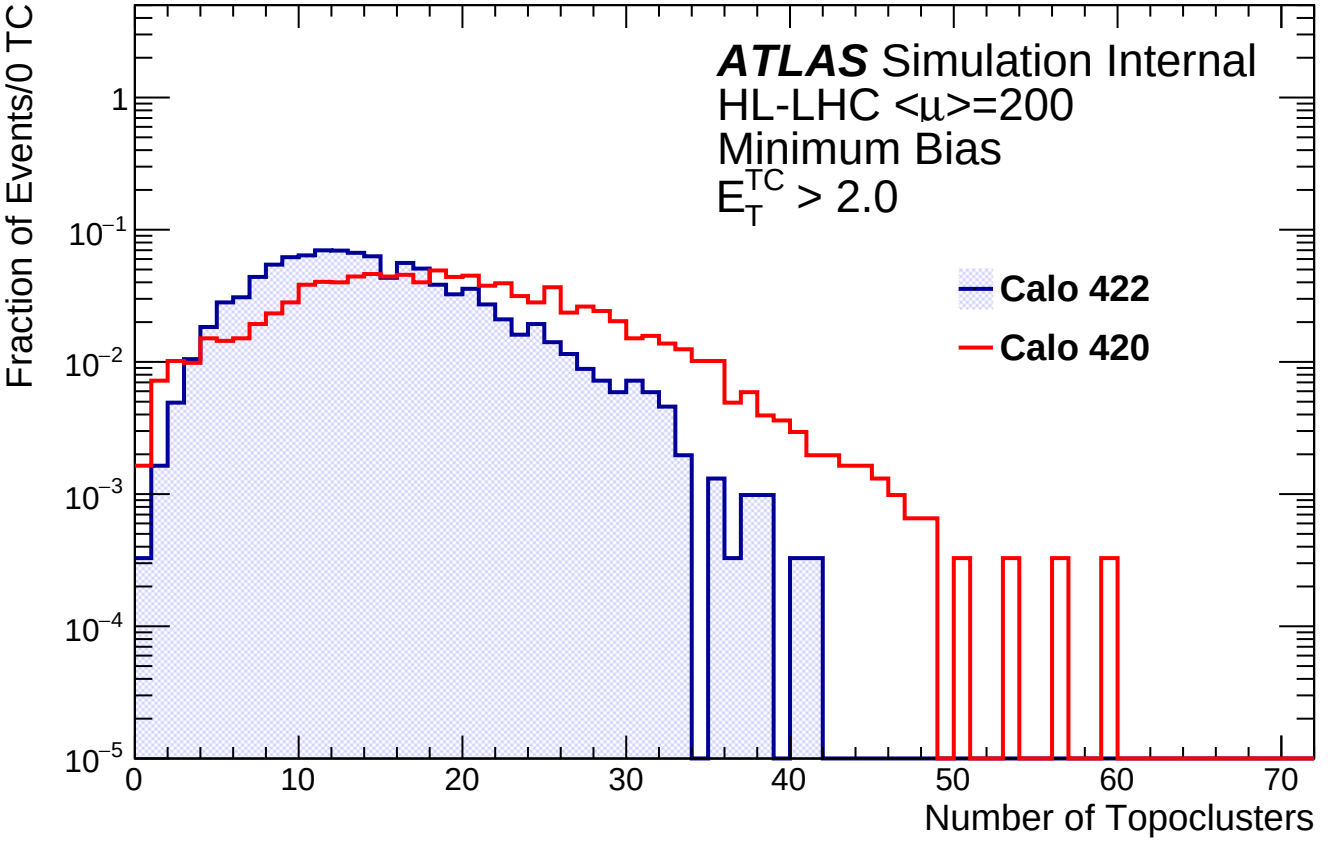
Number of Topoclusters post SK



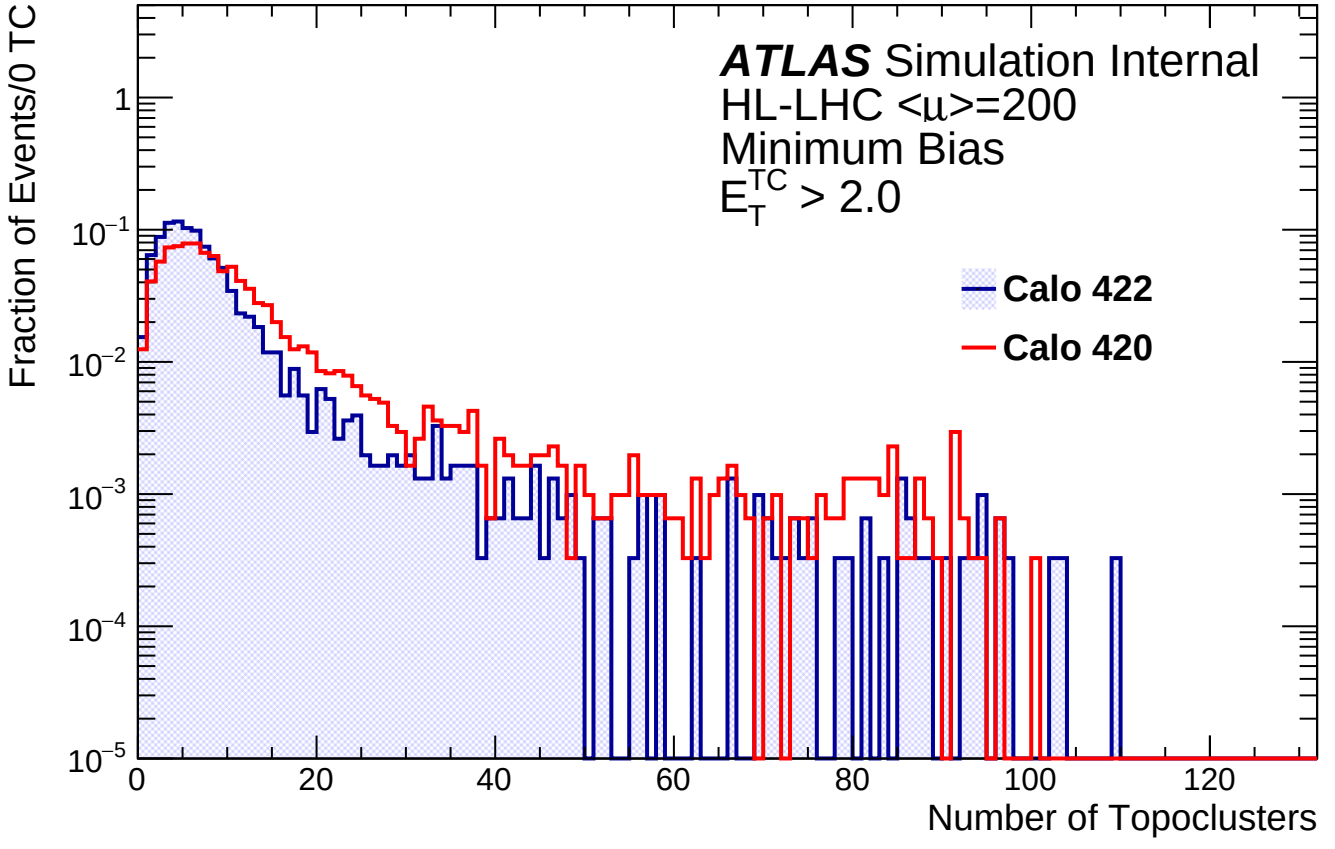
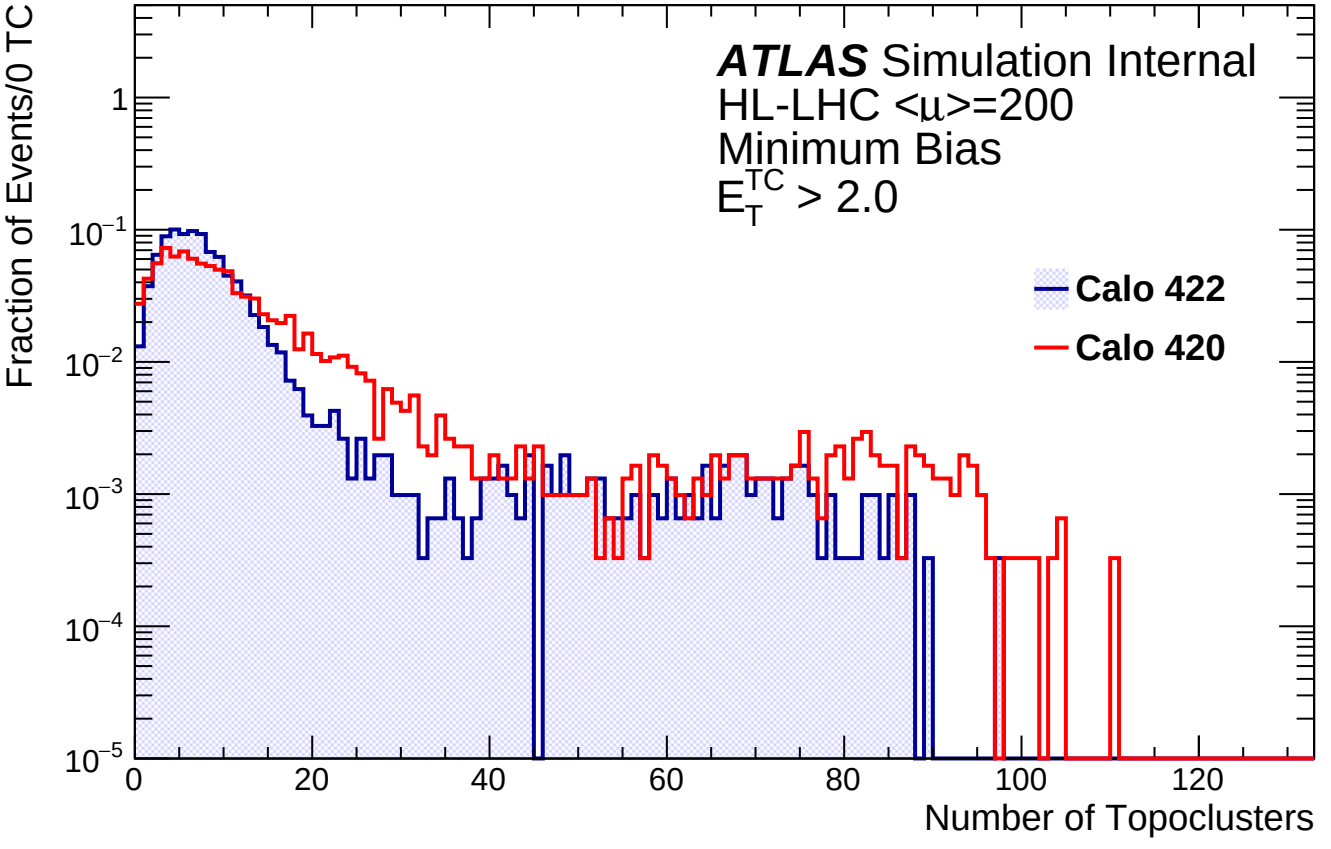
Number of Topoclusters post SK



Number of Topoclusters post SK



Number of Topoclusters post SK



Number of Topoclusters post SK