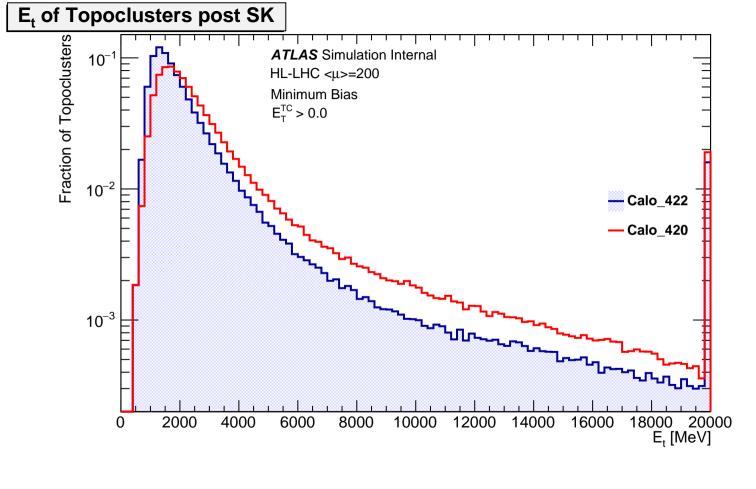
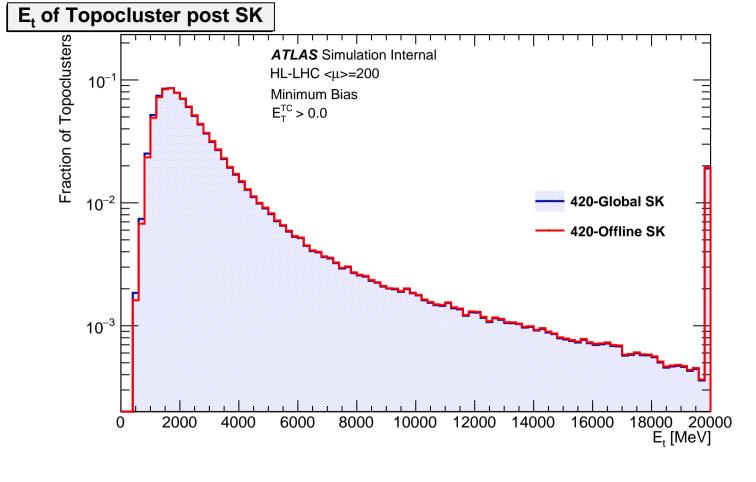
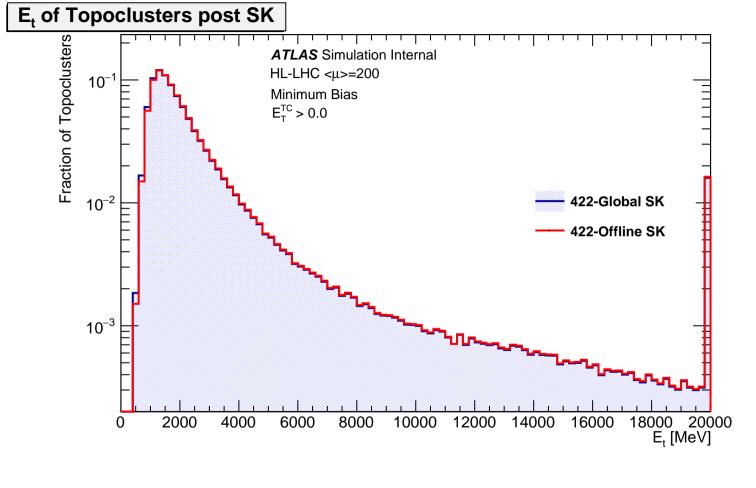


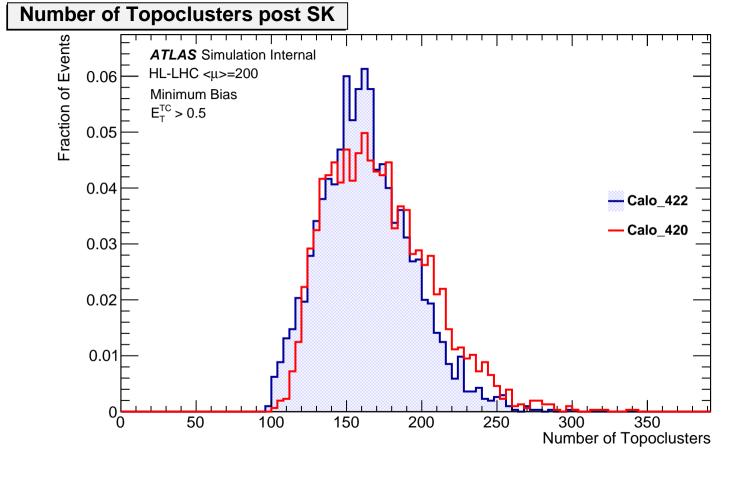
Cumulative Number of Topoclusters post SK Fraction of Events/4 TC ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{\tau}^{TC} > 0.0$ 10^{-1} 10^{-2} -- Calo 422 **Calo 420** 10^{-3} 10^{-4} 10^{-5} 50 100 150 200 250 300 350 **Number of Topoclusters**

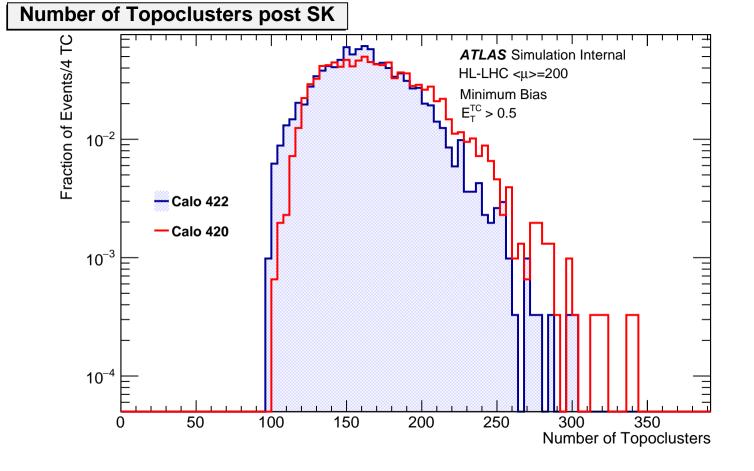




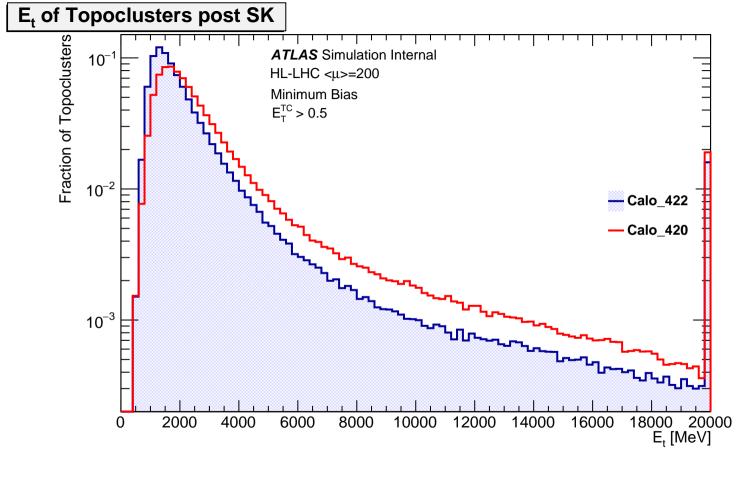


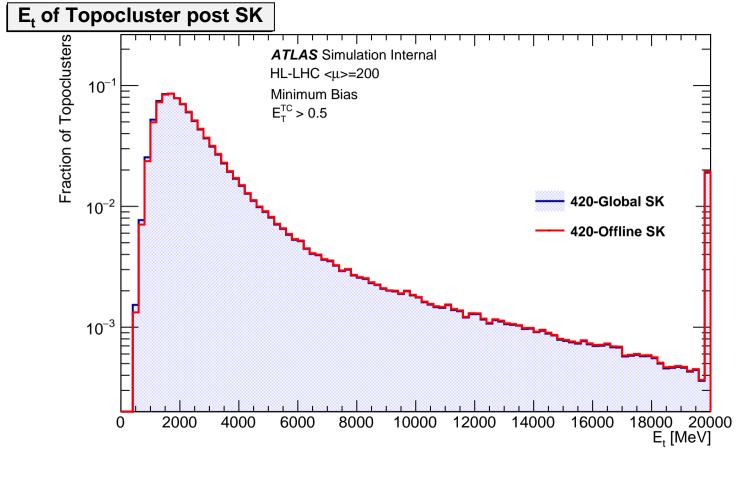
Average number of topoclusters as function of η post SK Number of topoclusters/# events ATLAS Simulation Internal 22 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 20 $E_{T}^{TC} > 0.0$ 18 16 14 — Calo_422 12 - Calo_420 10 6 -3 2 0

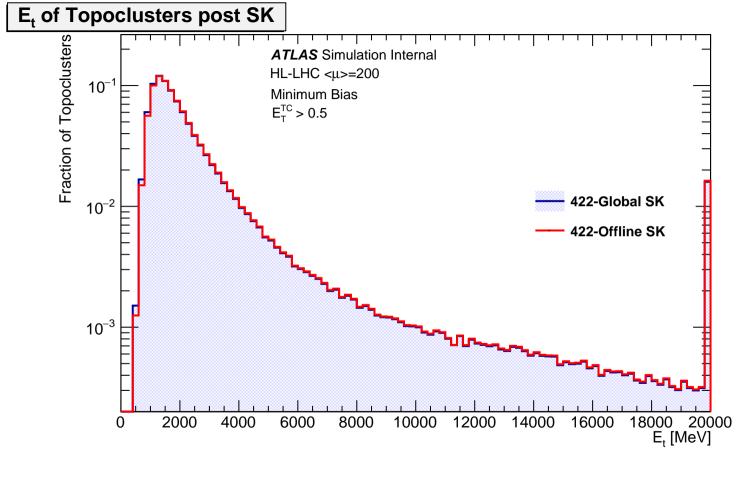




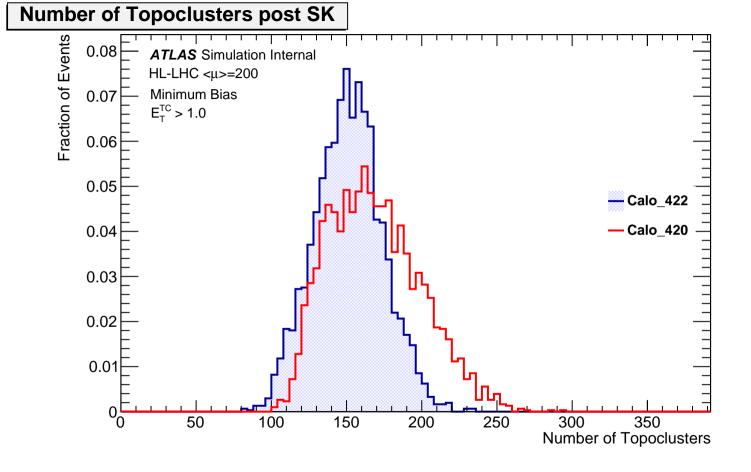
Cumulative Number of Topoclusters post SK Fraction of Events/4 TC ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{\tau}^{TC} > 0.5$ 10^{-1} 10^{-2} -- Calo 422 **Calo 420** 10^{-3} 10^{-4} 10^{-5} 50 100 150 200 250 300 350 **Number of Topoclusters**

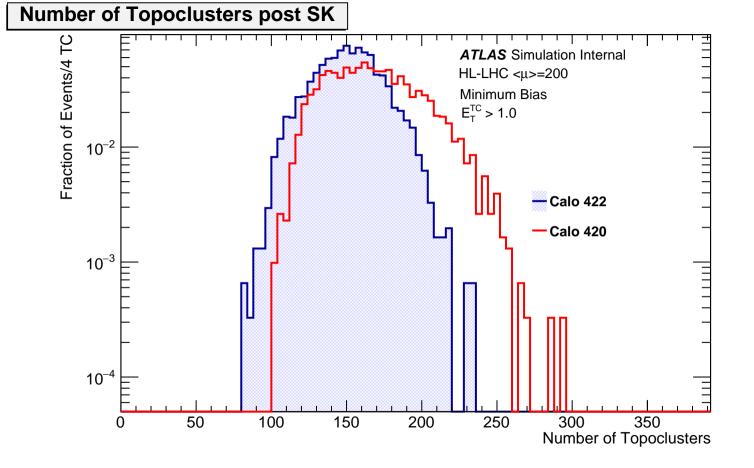




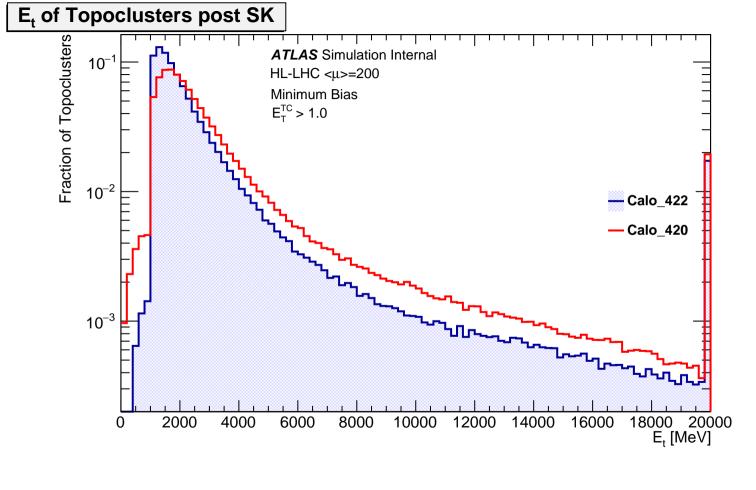


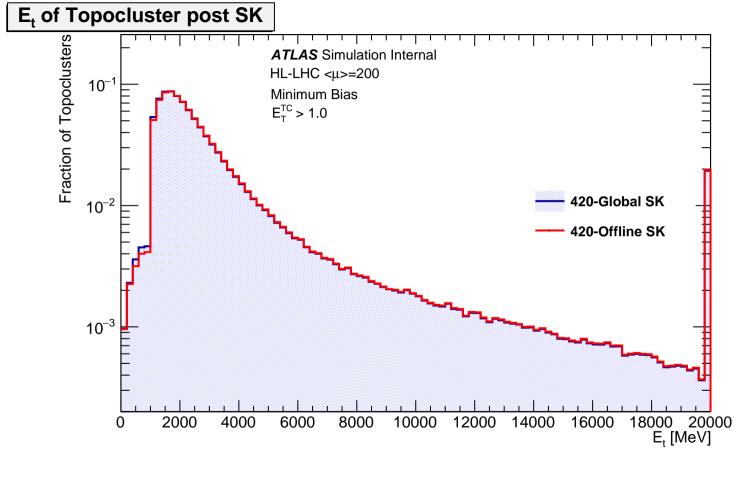
Average number of topoclusters as function of η post SK 24 F Number of topoclusters/# events ATLAS Simulation Internal 22 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 20 $E_{T}^{TC} > 0.5$ 18 16 14 — Calo_422 12 - Calo_420 10 6 -3 2 0

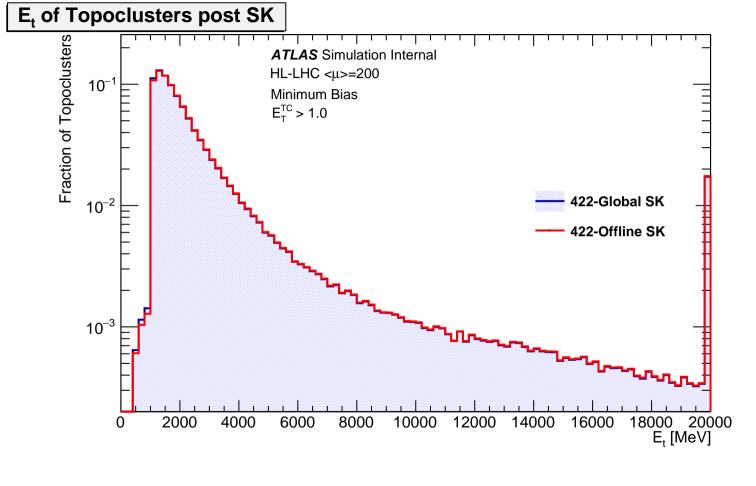




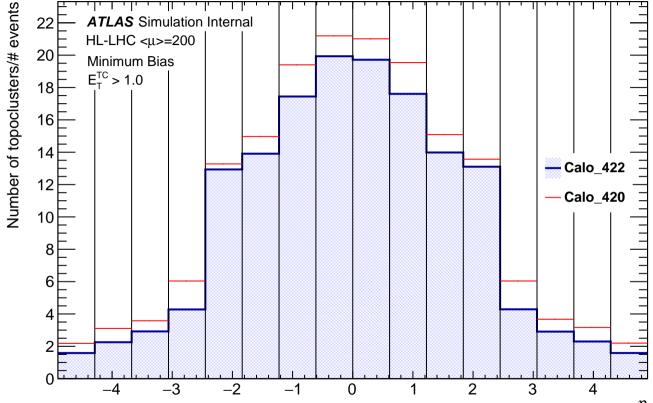
Cumulative Number of Topoclusters post SK Fraction of Events/4 TC **ATLAS** Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{T}^{TC} > 1.0$ 10^{-1} 10^{-2} — Calo 422 — Calo 420 10^{-3} 10^{-4} 10⁻⁵ 50 100 150 200 250 300 350 **Number of Topoclusters**

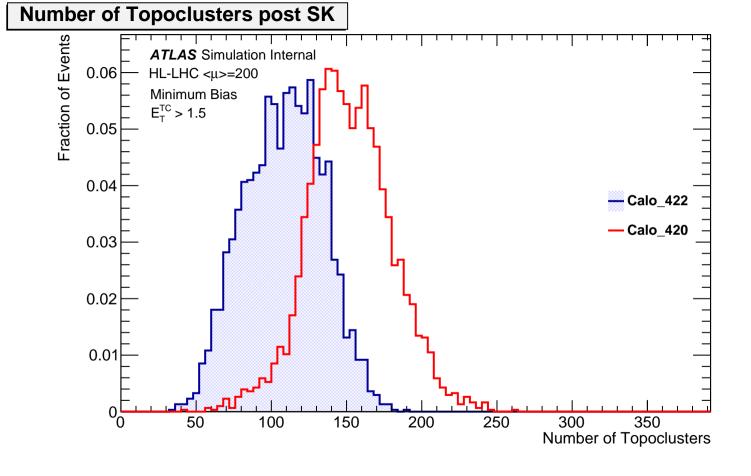


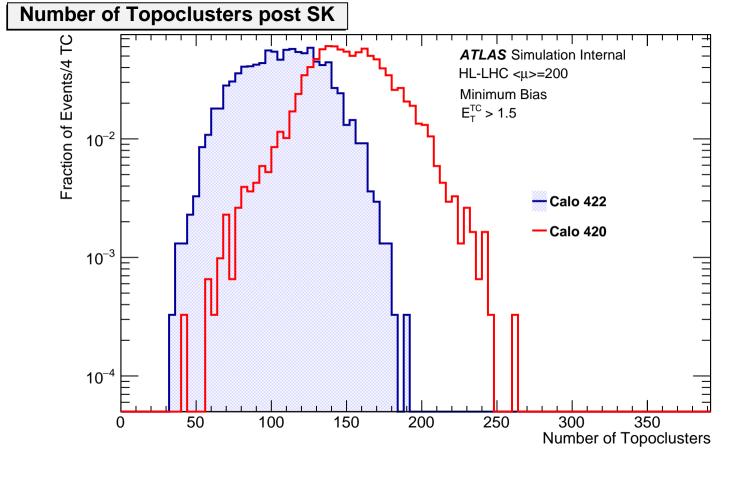




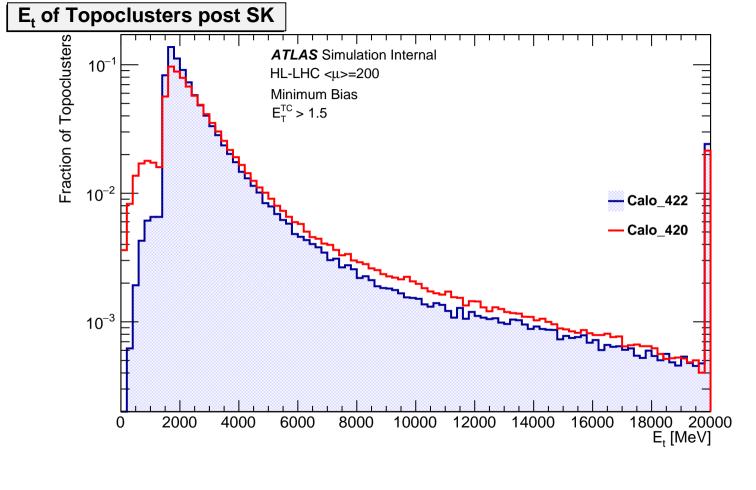
Average number of topoclusters as function of η post SK

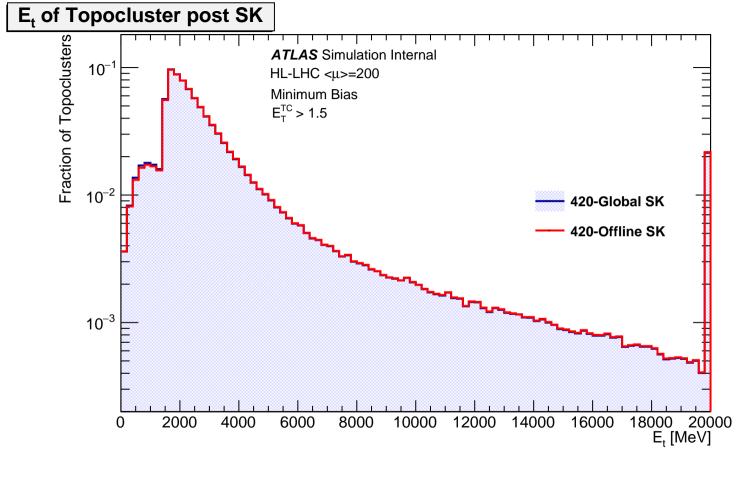


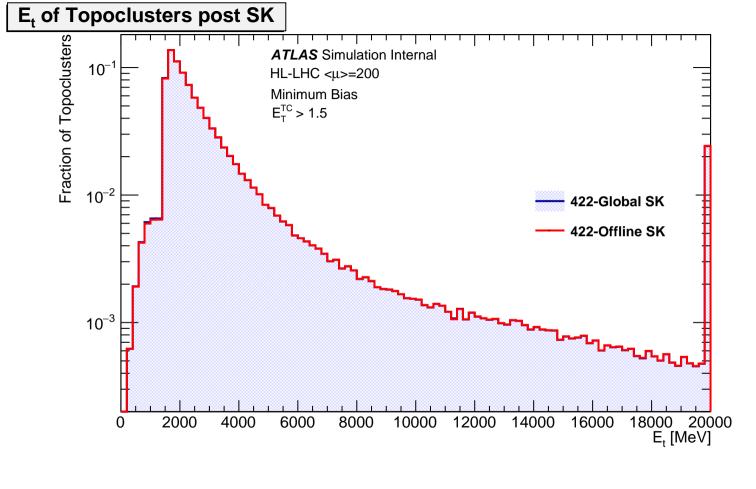




Cumulative Number of Topoclusters post SK Fraction of Events/4 TC **ATLAS** Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{T}^{TC} > 1.5$ 10^{-1} 10^{-2} — Calo 422 — Calo 420 10^{-3} 10^{-4} 10^{-5} 50 100 150 200 250 300 350 **Number of Topoclusters**





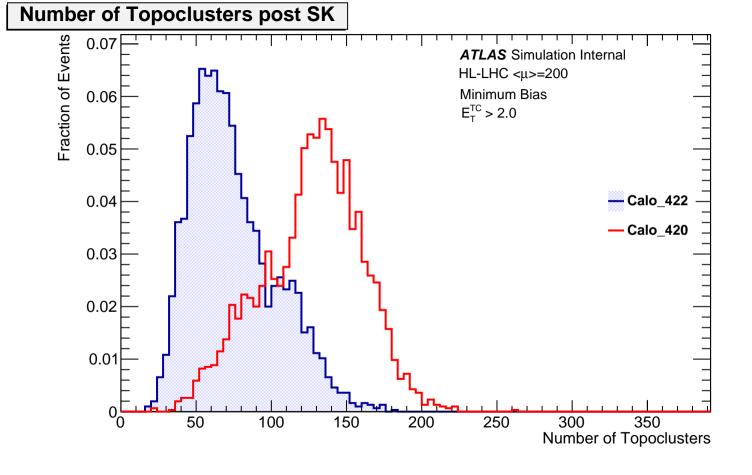


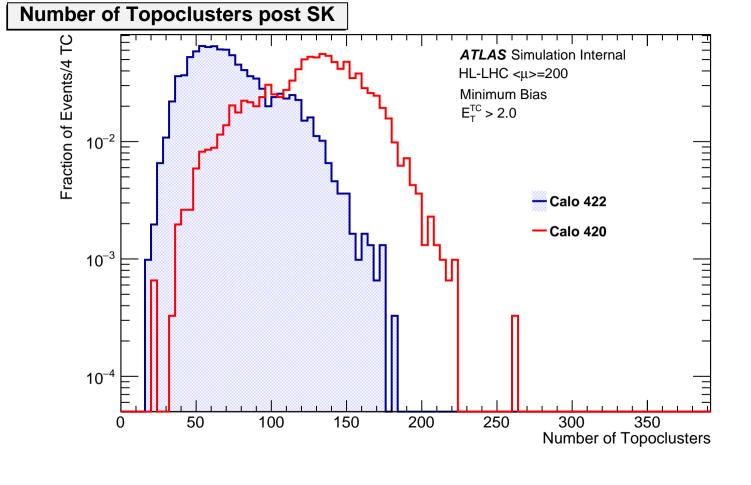
Average number of topoclusters as function of η post SK Number of topoclusters/# events ATLAS Simulation Internal 18 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 16 $E_{T}^{TC} > 1.5$ 14 12 — Calo_422 10 - Calo_420 6

0

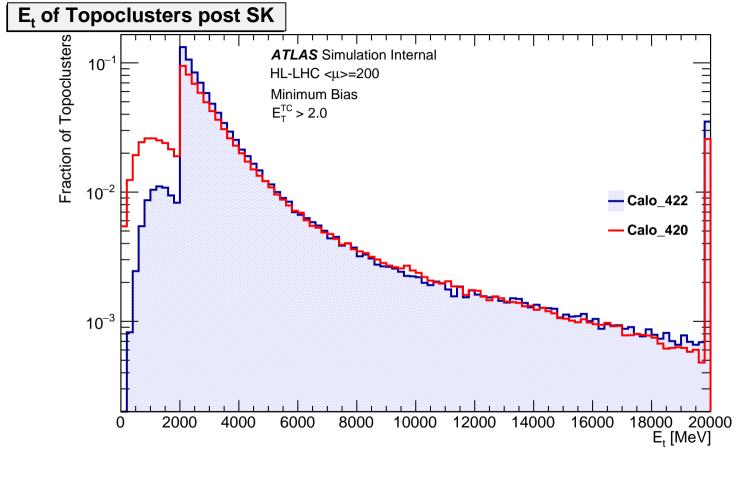
2

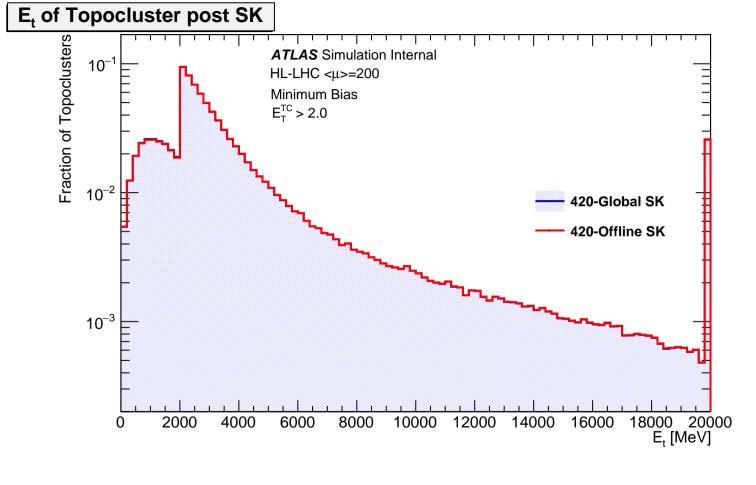
-3

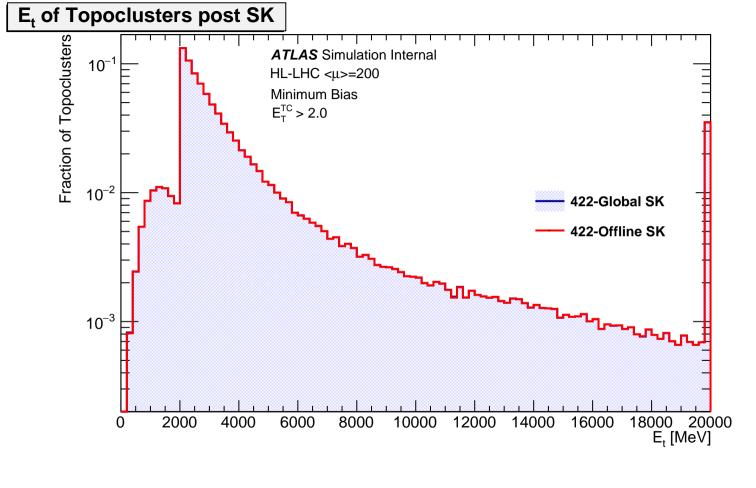




Cumulative Number of Topoclusters post SK Fraction of Events/4 TC **ATLAS** Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{T}^{TC} > 2.0$ 10^{-1} 10^{-2} — Calo 422 — Calo 420 10^{-3} 10^{-4} 10^{-5} 50 100 150 200 250 300 350 **Number of Topoclusters**







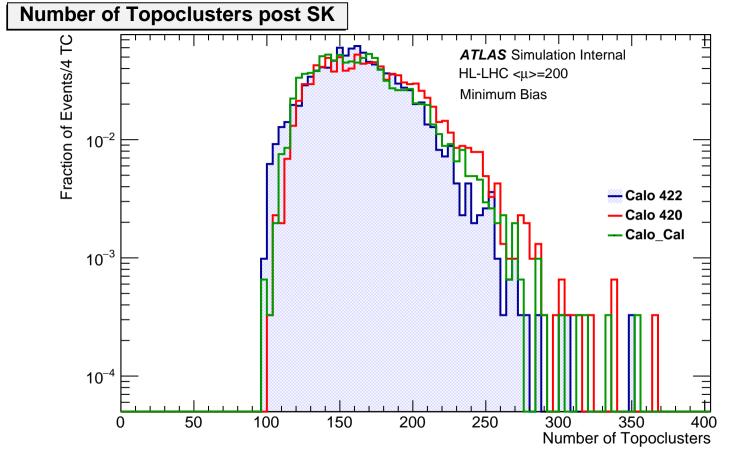
Average number of topoclusters as function of η post SK 14_P Number of topoclusters/# events ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ 12 Minimum Bias $E_{T}^{TC} > 2.0$ 10 8 — Calo_422 - Calo_420 6

0

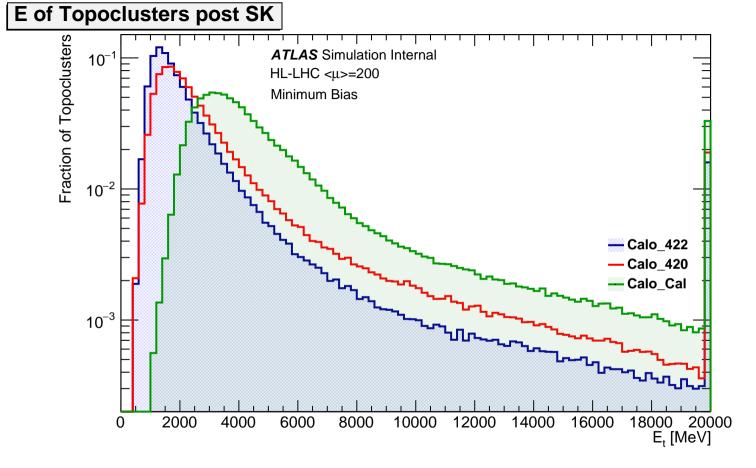
2

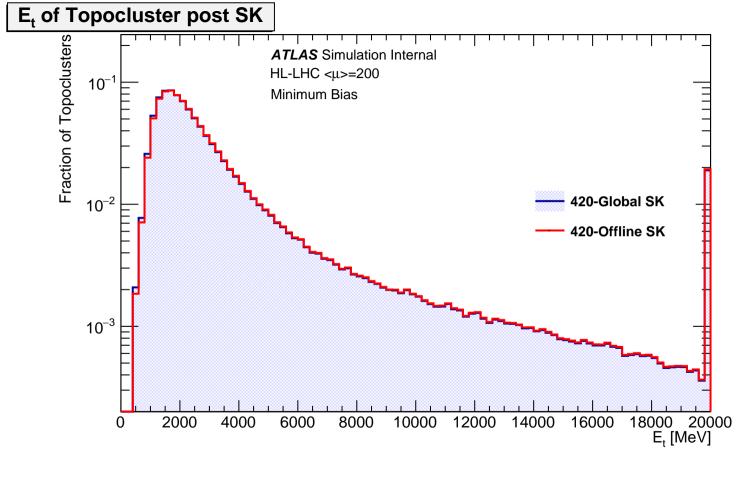
-3

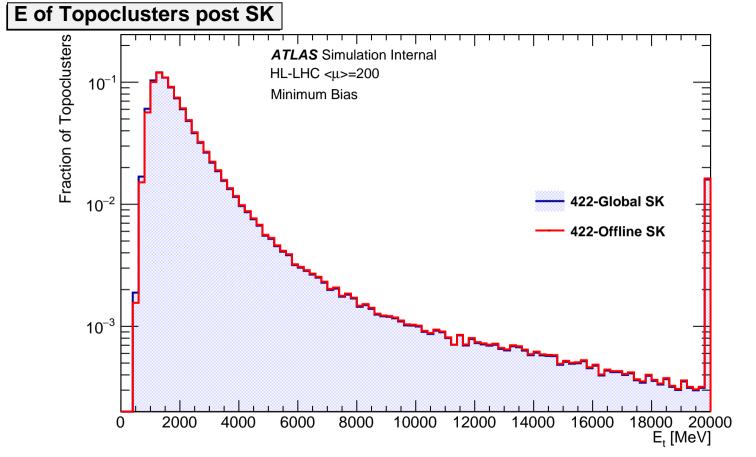
Number of Topoclusters post SK Fraction of Events ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ 0.06 Minimum Bias 0.05 0.04 --- Calo_422 0.03 — Calo_420 — Calo_Cal 0.02 0.01 50 100 150 200 250 300 350 400 **Number of Topoclusters**



Cumulative Number of Topoclusters post SK Fraction of Events/4 TC ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 10^{-1} 10^{-2} -- Calo 422 — Calo 420 -- Calo_Cal 10^{-3} 10^{-4} 10^{-5} 50 100 150 200 250 300 350 400 **Number of Topoclusters**







Average number of topoclusters as function of η post SK 24 F Number of topoclusters/# events ATLAS Simulation Internal 22 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 20 18 16 14 12 -- Calo_422 10 Calo_420 — Calo_Cal 6 -3 2 0