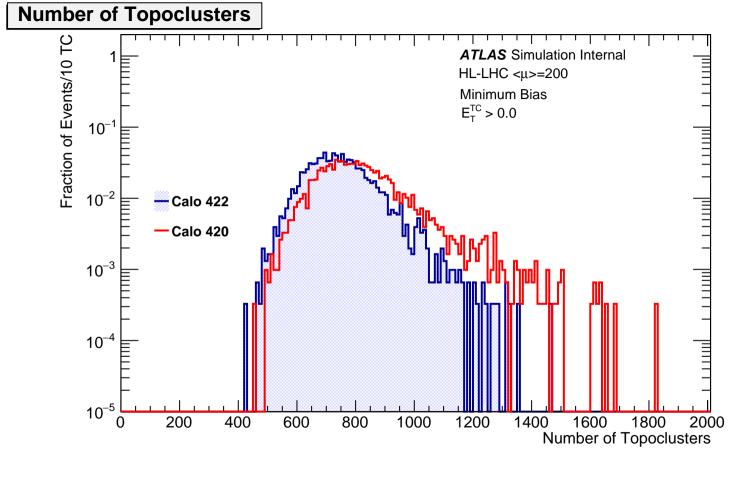
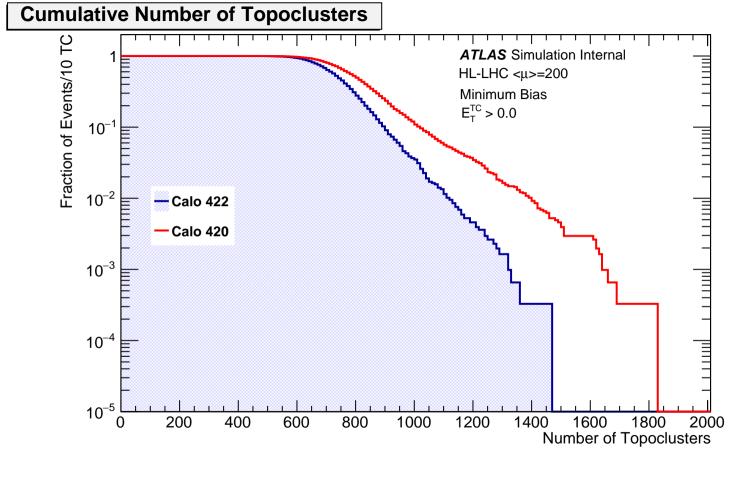
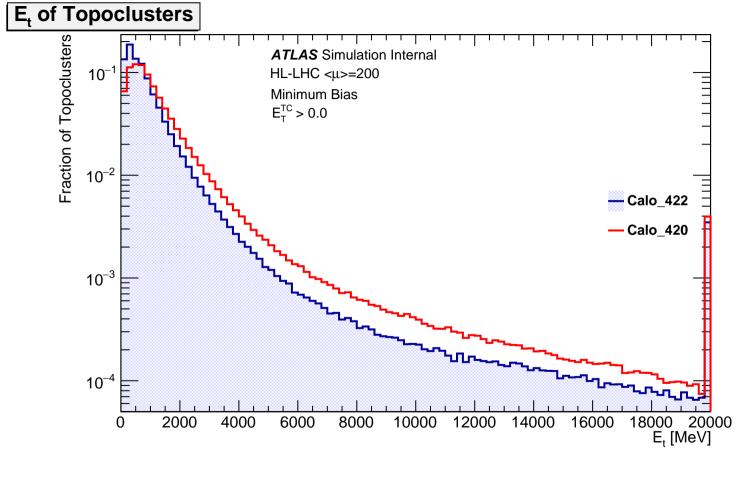
Number of Topoclusters Fraction of Events ATLAS Simulation Internal 0.045 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 0.04 $E_{T}^{TC} > 0.0$ 0.035 0.03 --- Calo_422 0.025 — Calo_420 0.02 0.015 0.01 0.005 200 400 600 800 1000 1800 2000 1200 1400 1600

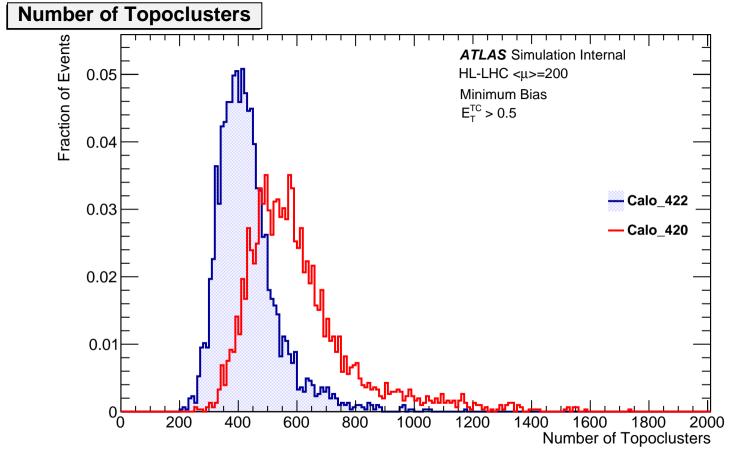
Number of Topoclusters

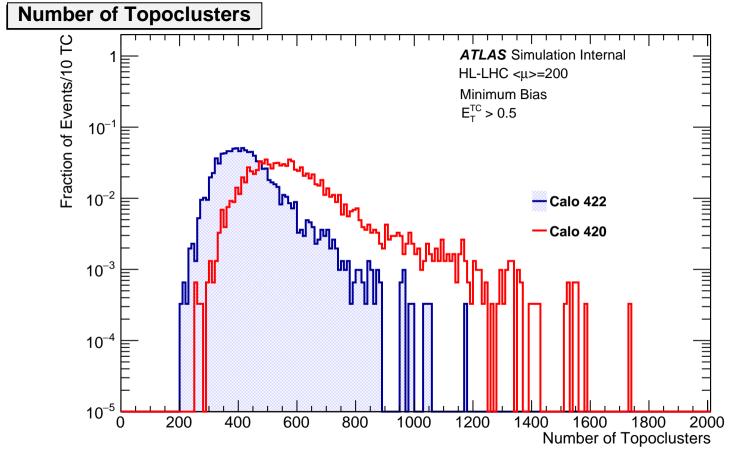


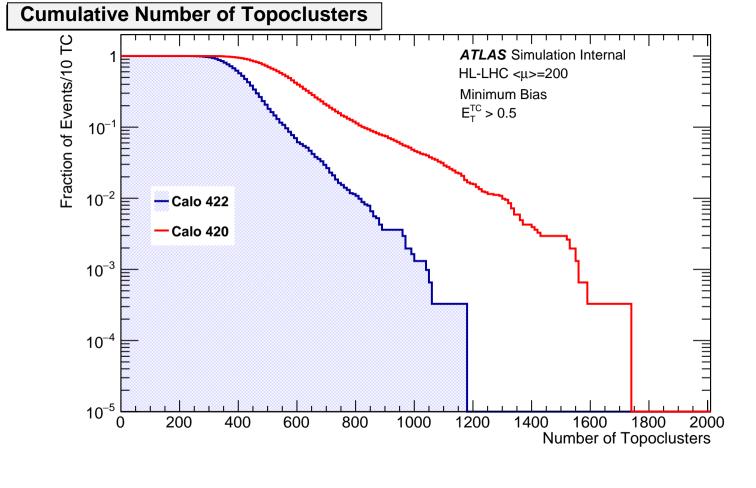


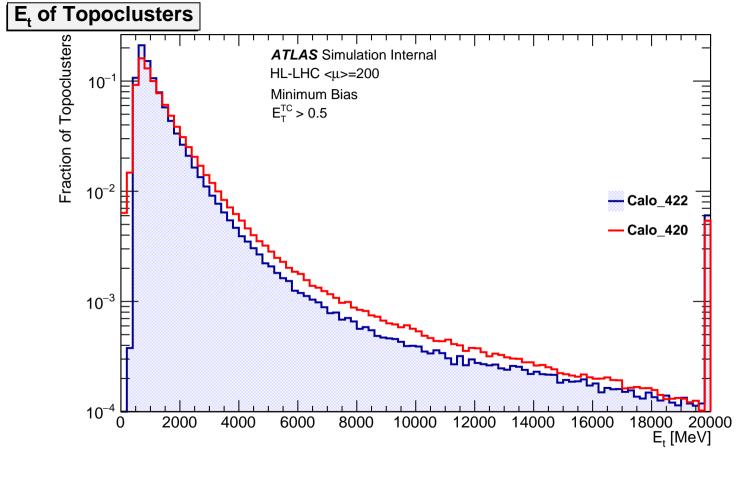


Average number of topoclusters as function of η Number of topoclusters/# events ATLAS Simulation Internal 100 HL-LHC $\langle \mu \rangle = 200$ Minimum Bias $E_{T}^{TC} > 0.0$ 80 — Calo_422 60 - Calo_420 40 20 -3 2 0



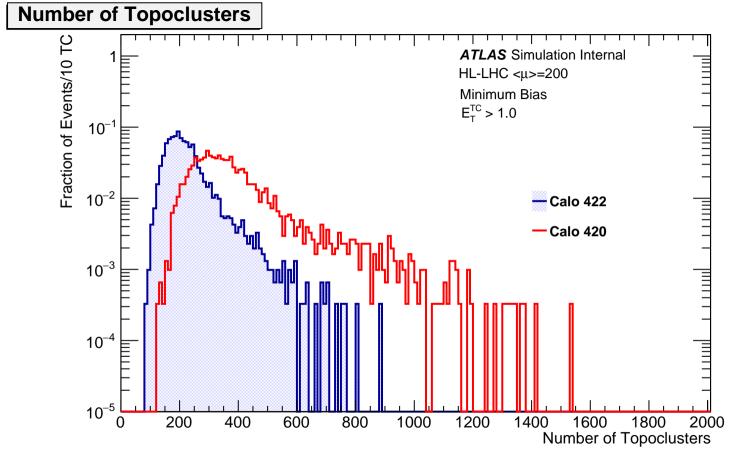


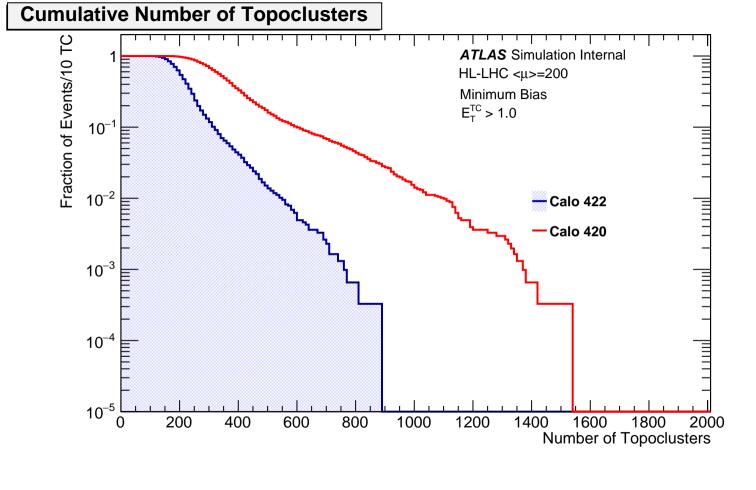


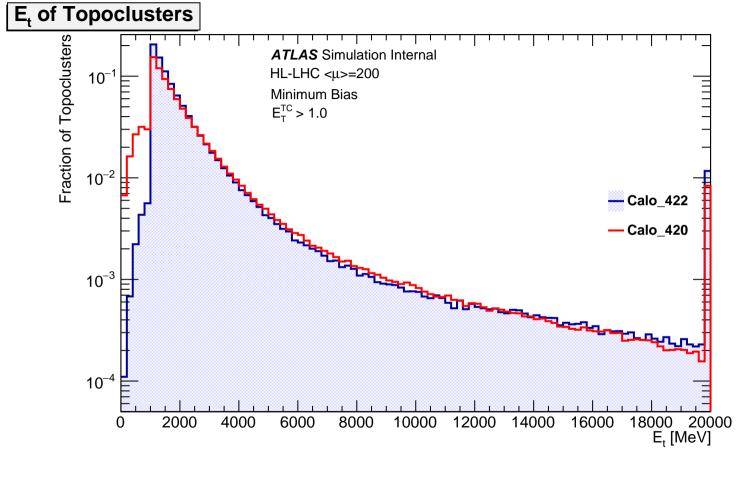


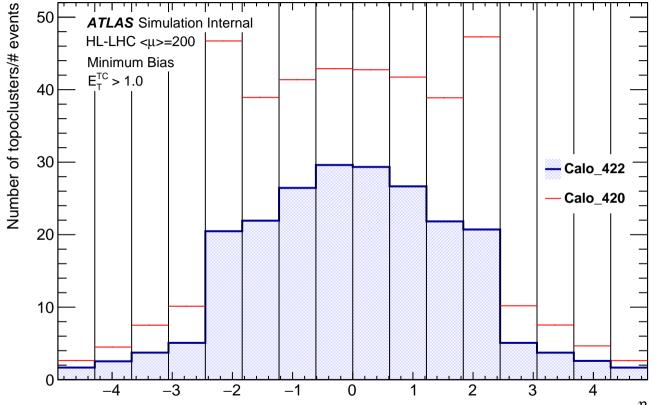
Average number of topoclusters as function of η Number of topoclusters/# events ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ 70 Minimum Bias $E_{T}^{TC} > 0.5$ 60 50 — Calo_422 40 - Calo_420 30 20 10 -3 2 0

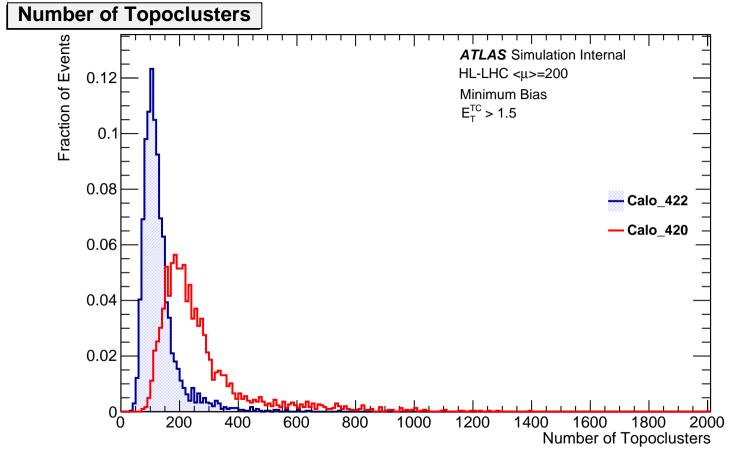
Number of Topoclusters Fraction of Events 0.09 ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 0.08 $E_{\tau}^{TC} > 1.0$ 0.07 0.06 — Calo_422 0.05 — Calo 420 0.04 0.03 0.02 0.01 200 400 600 1200 1400 1800 2000 800 1000 1600 **Number of Topoclusters**

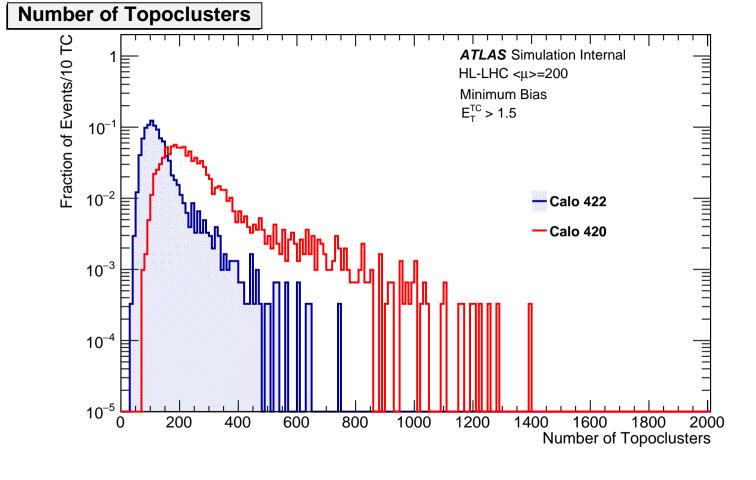


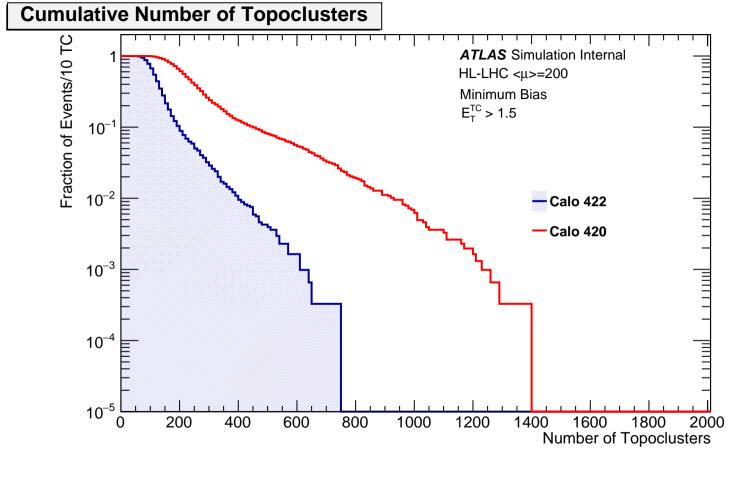


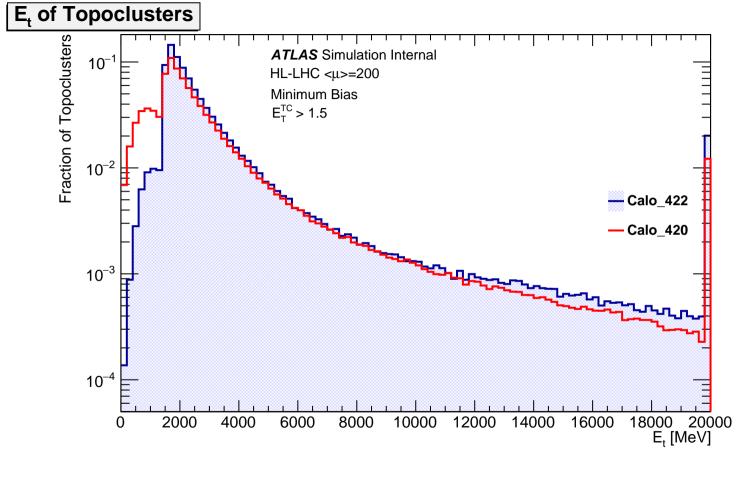










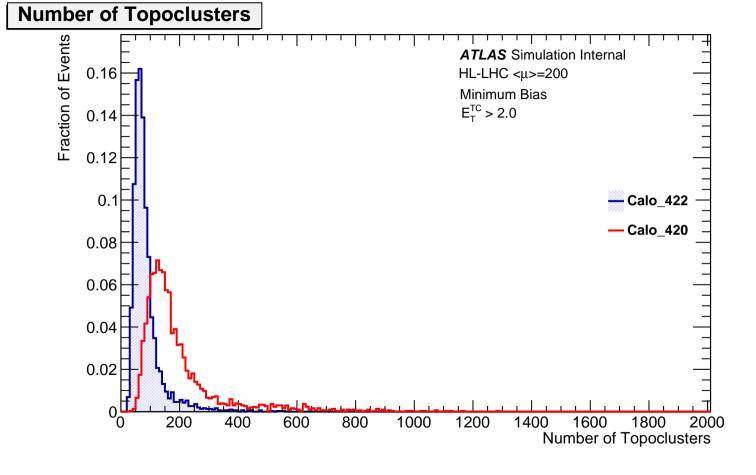


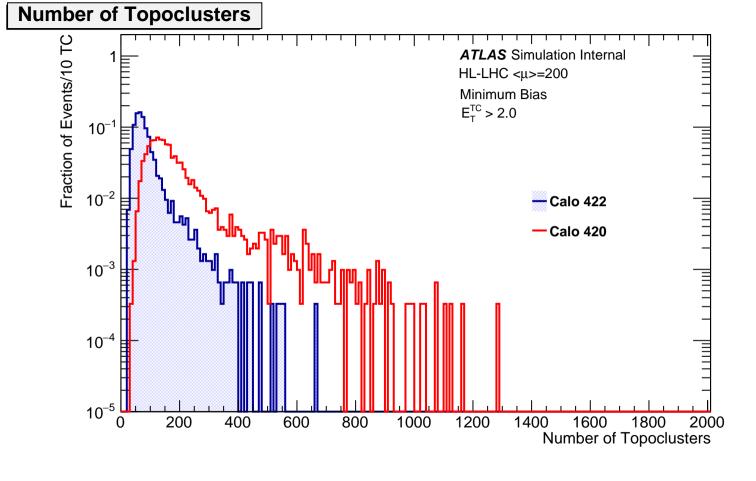
Average number of topoclusters as function of η Number of topoclusters/# events 35 ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 30 $E_{T}^{TC} > 1.5$ 25 — Calo_422 20 - Calo_420 15 10 5

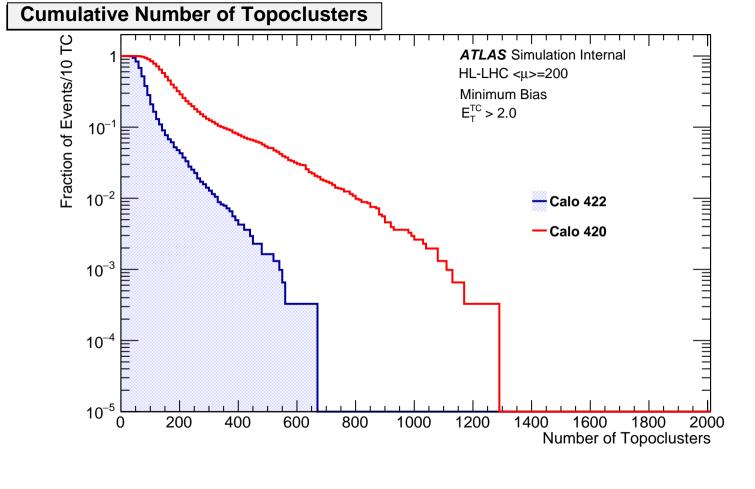
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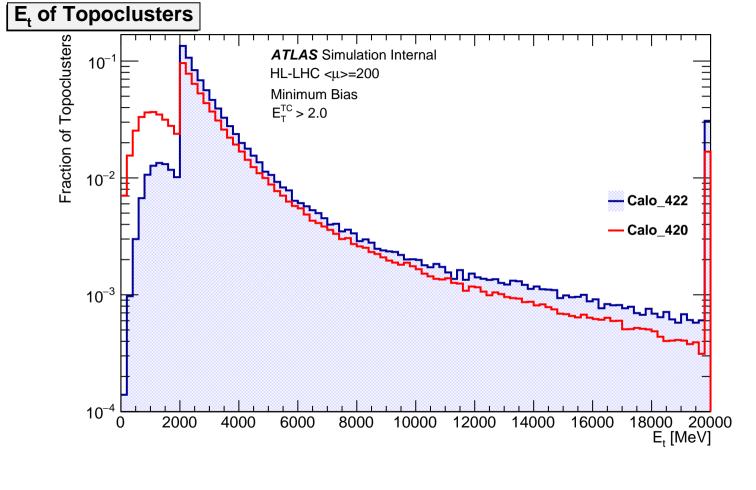
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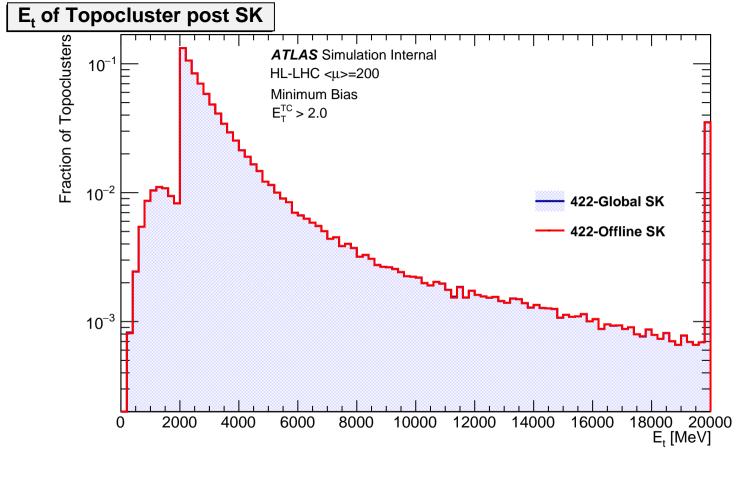
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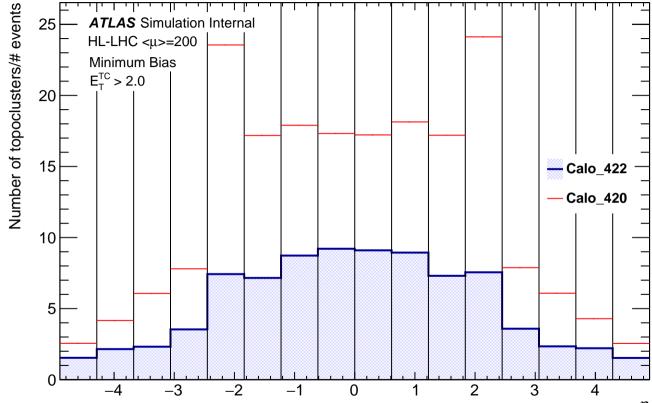






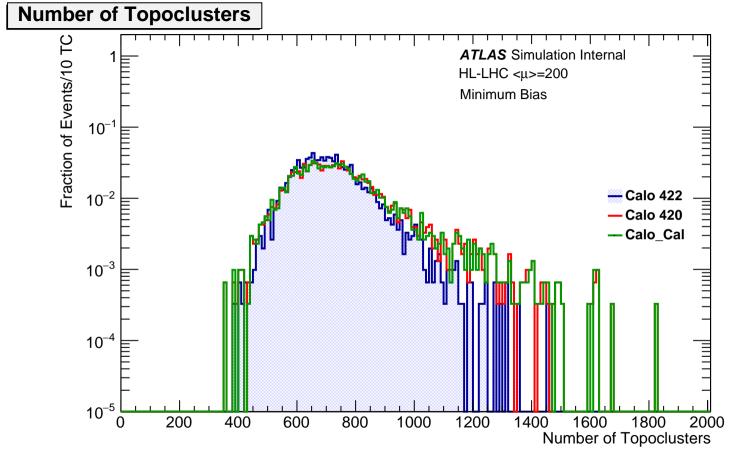


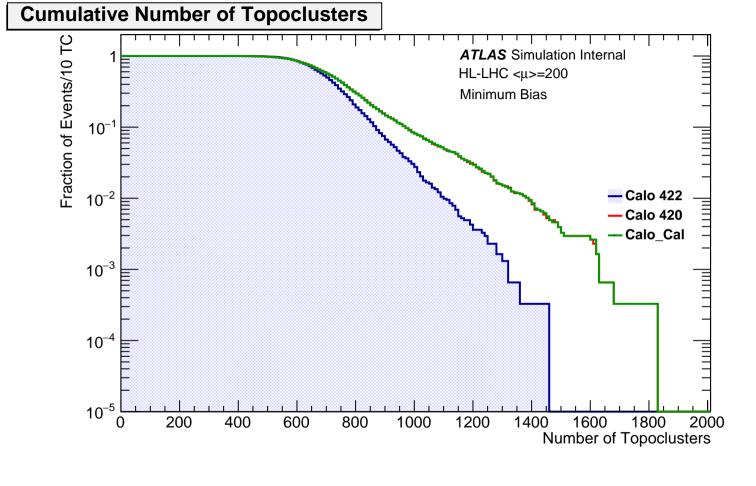
Average number of topoclusters as function of η

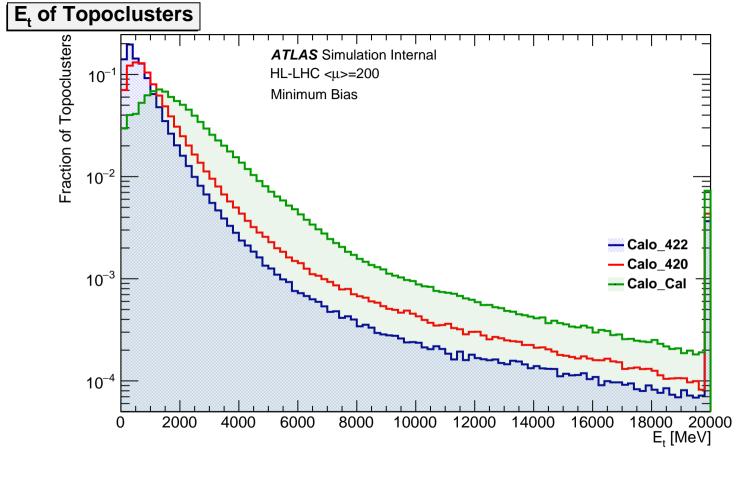


Number of Topoclusters Fraction of Events 0.045 **ATLAS** Simulation Internal HL-LHC $\langle \mu \rangle = 200$ 0.04 Minimum Bias 0.035 0.03 0.025 --- Calo_422 0.02 — Calo_420 — Calo_Cal 0.015 0.01 0.005 200 400 600 800 2000 1000 1200 1400 1600 1800

Number of Topoclusters







Average number of topoclusters as function of η Number of topoclusters/# events 100 ATLAS Simulation Internal HL-LHC $\langle \mu \rangle = 200$ Minimum Bias 80 60 --- Calo_422 Calo_420 40 — Calo_Cal 20 -3 2 0