



SAPIENZA
UNIVERSITÀ DI ROMA



CENTRO RICERCHE
ENRICO FERMI

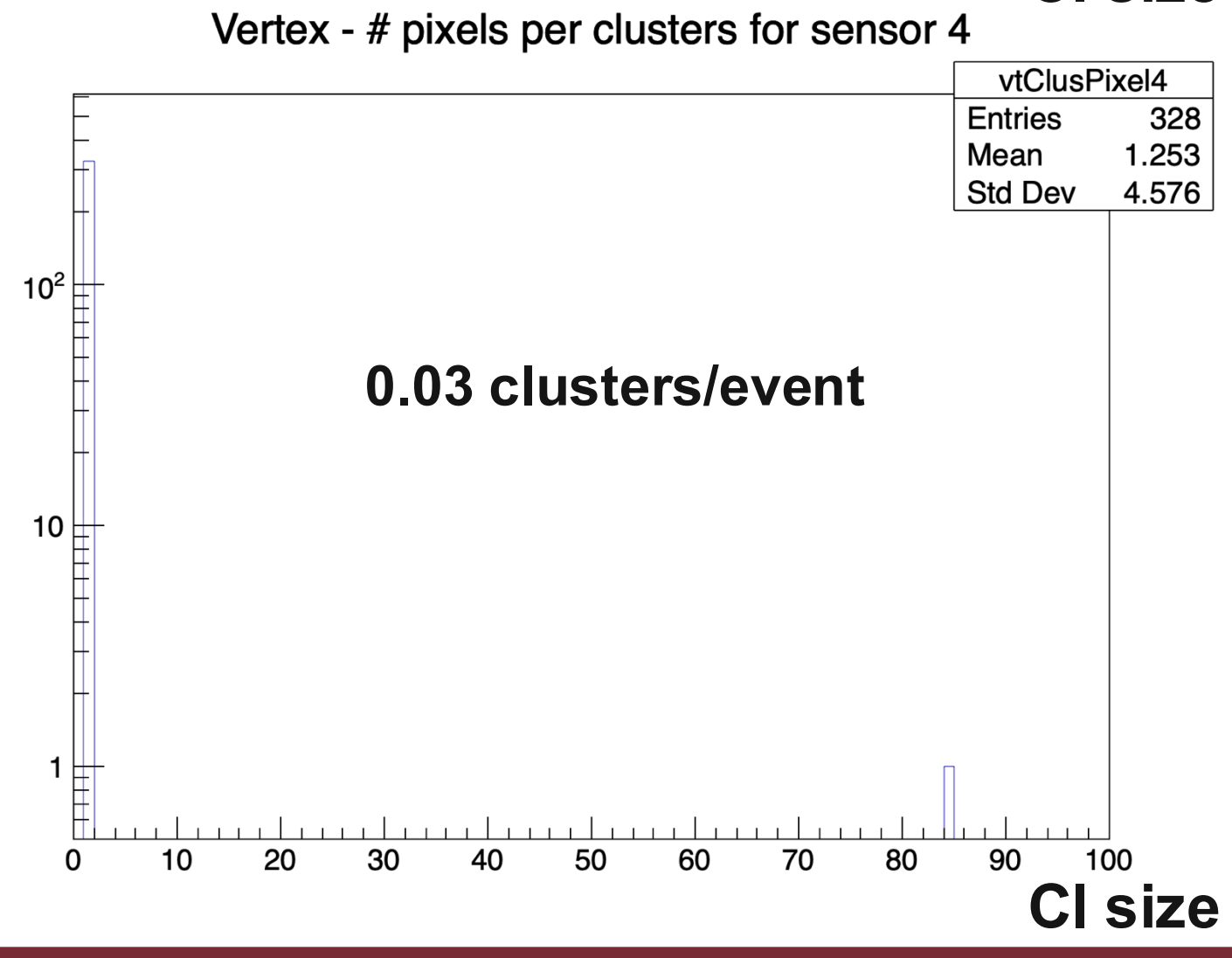
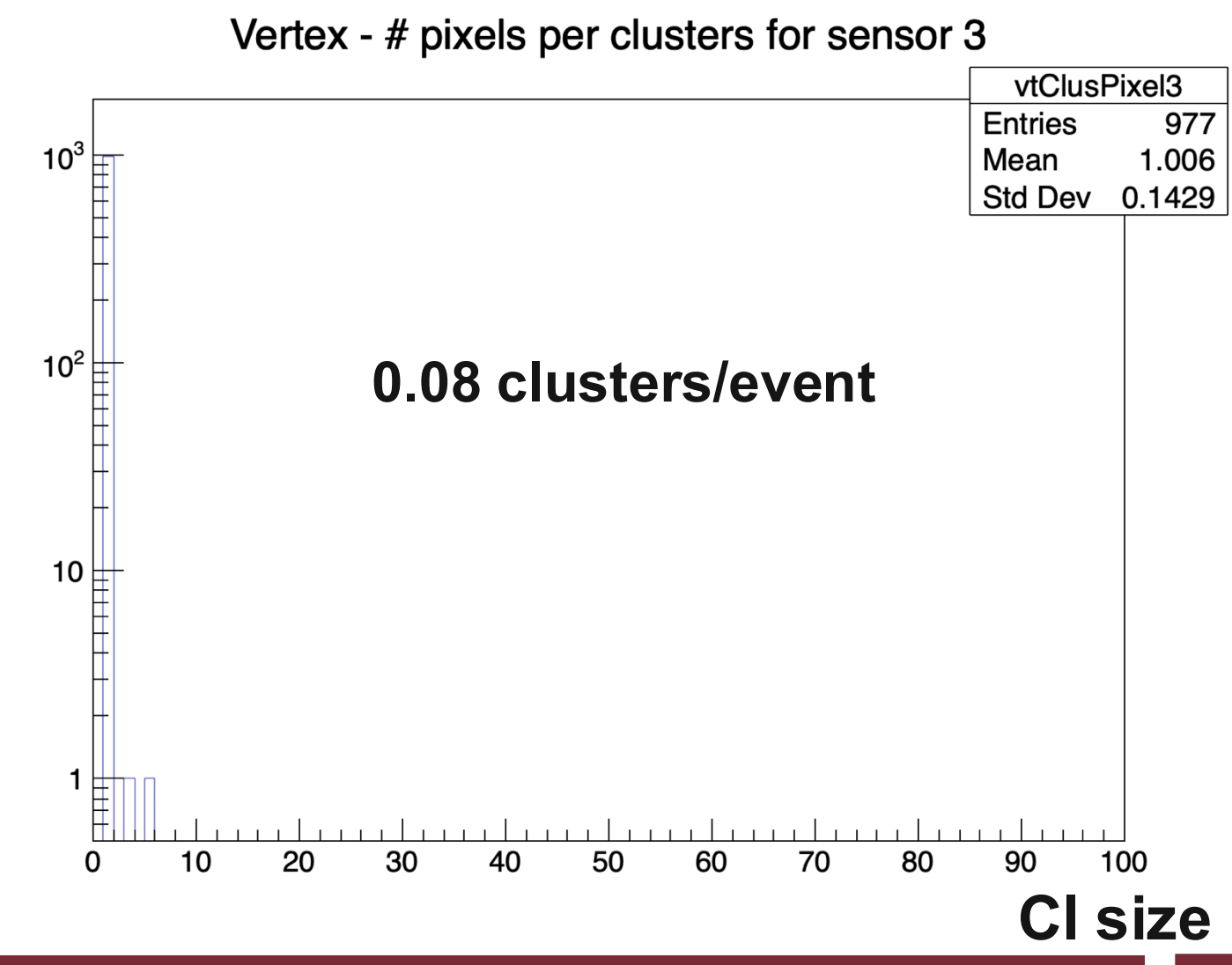
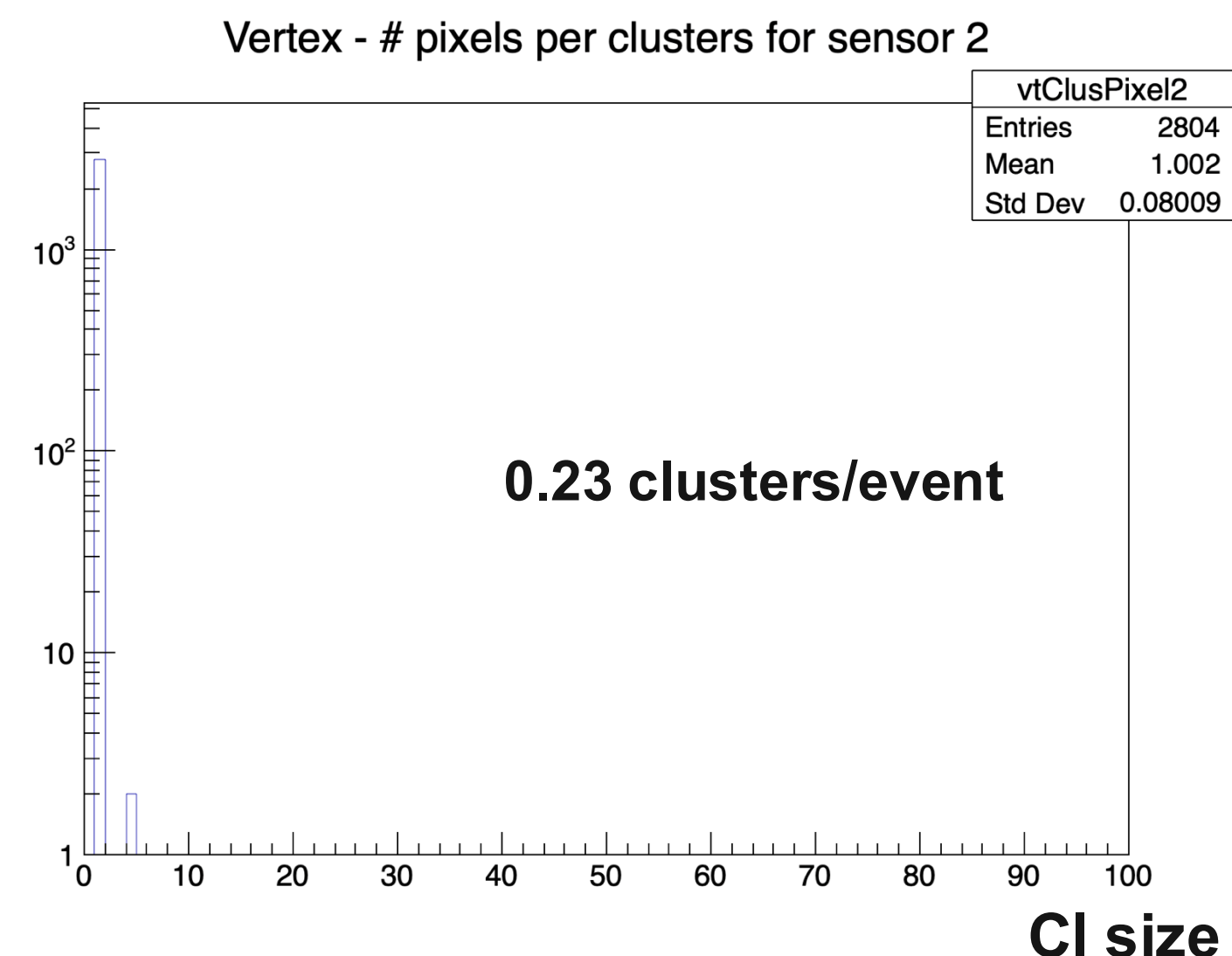
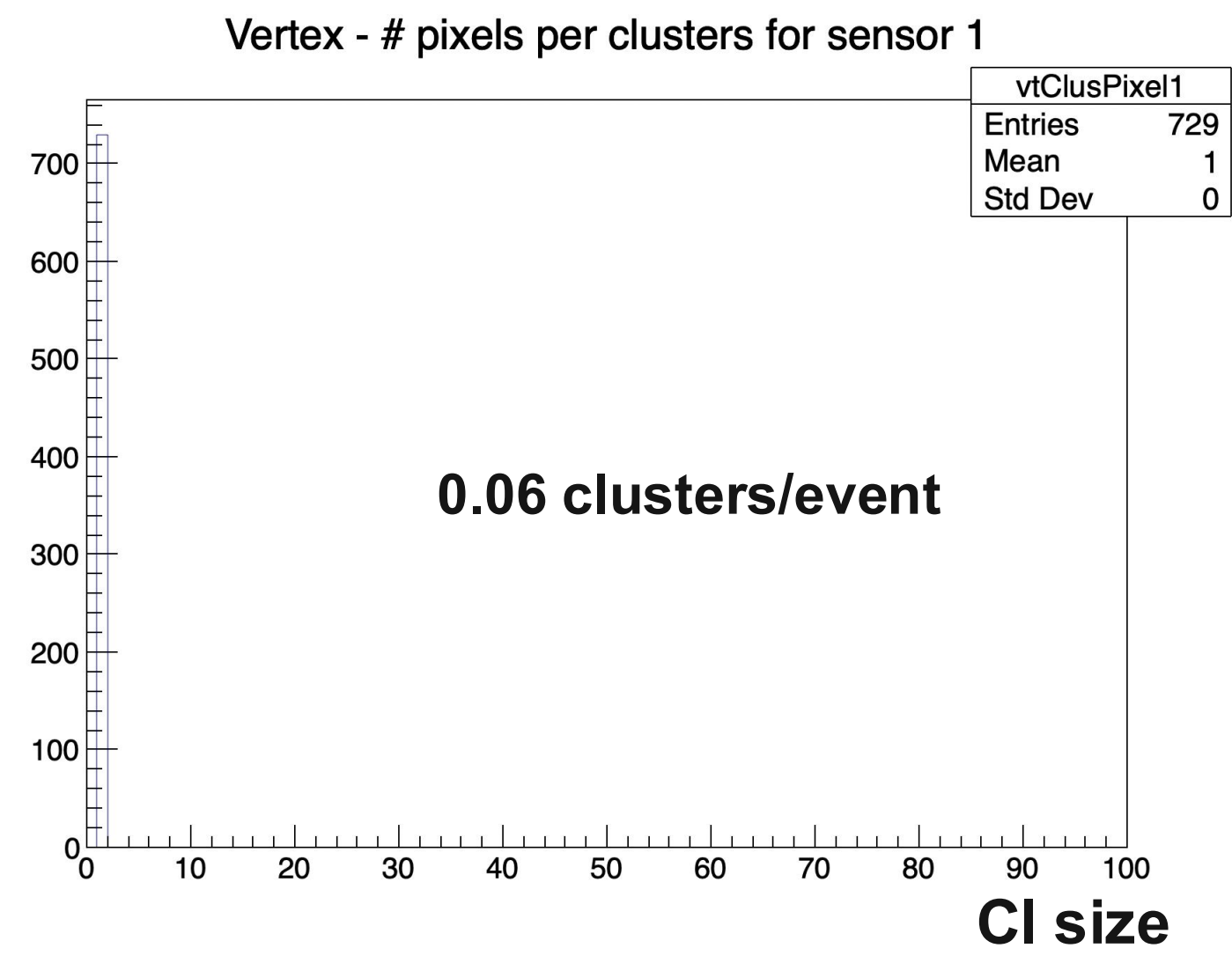
VTX CNAO2025

Chris, Luana and Marco

Physics Meeting 01/10/2025



Noise in pedestal runs [before crazy p beam]

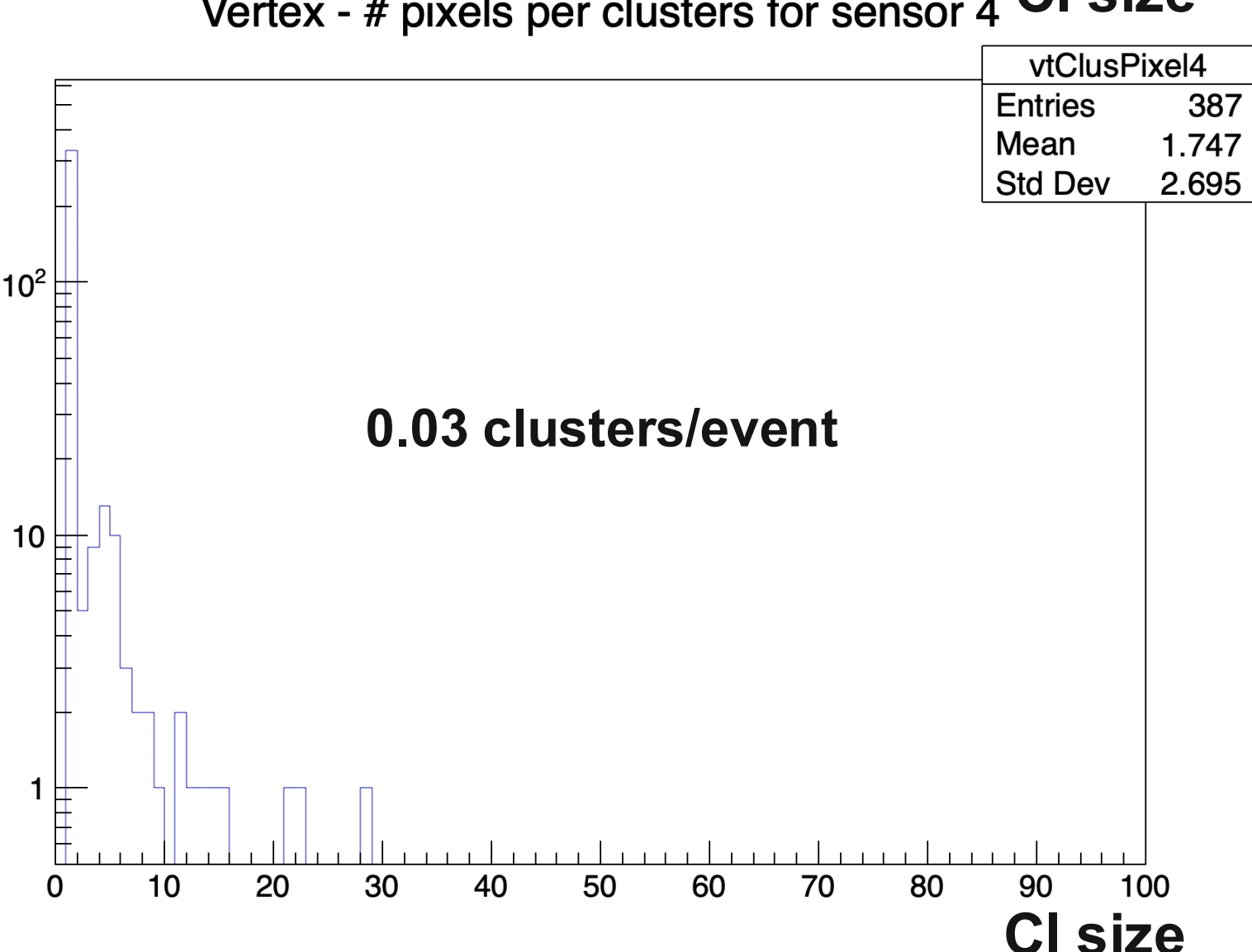
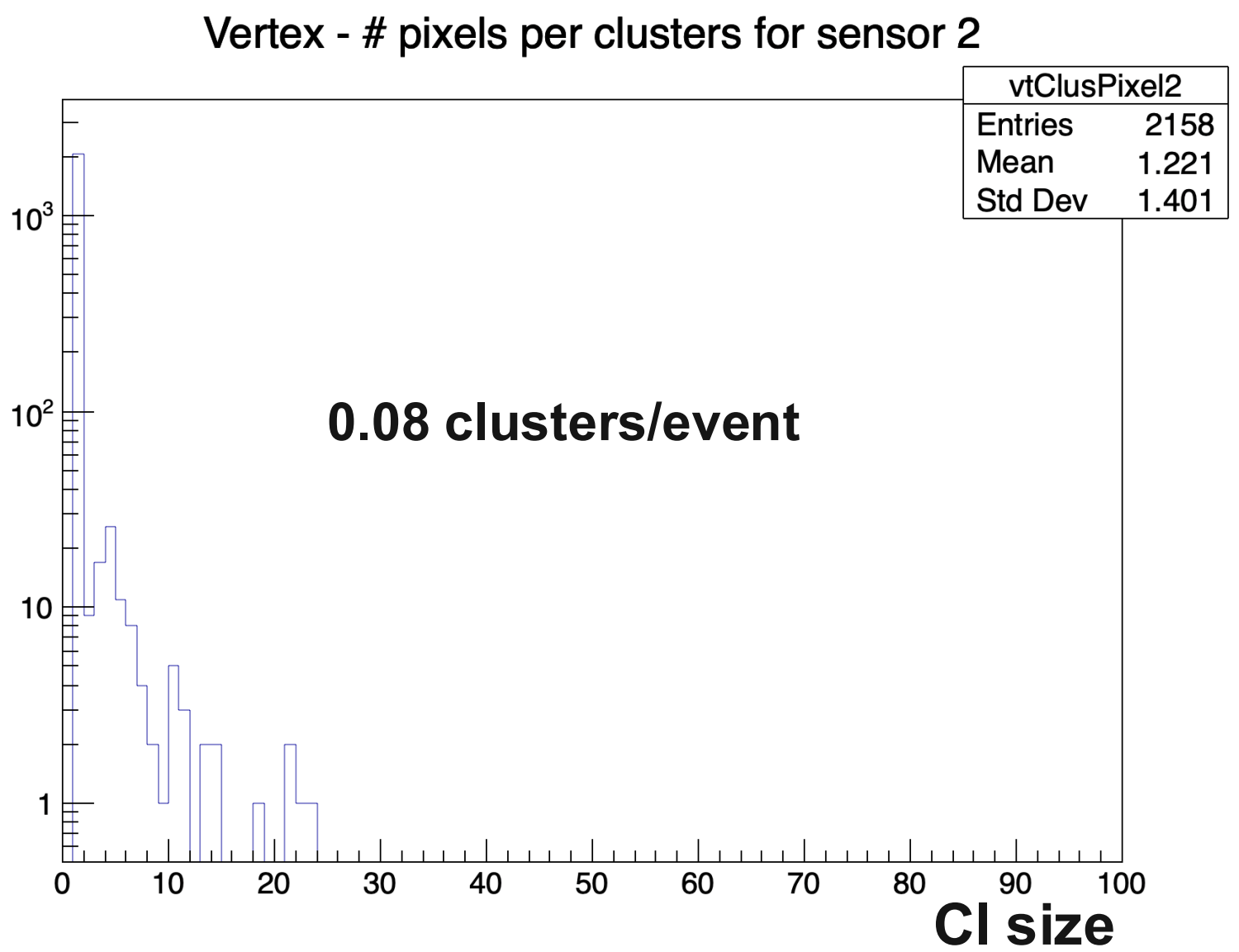
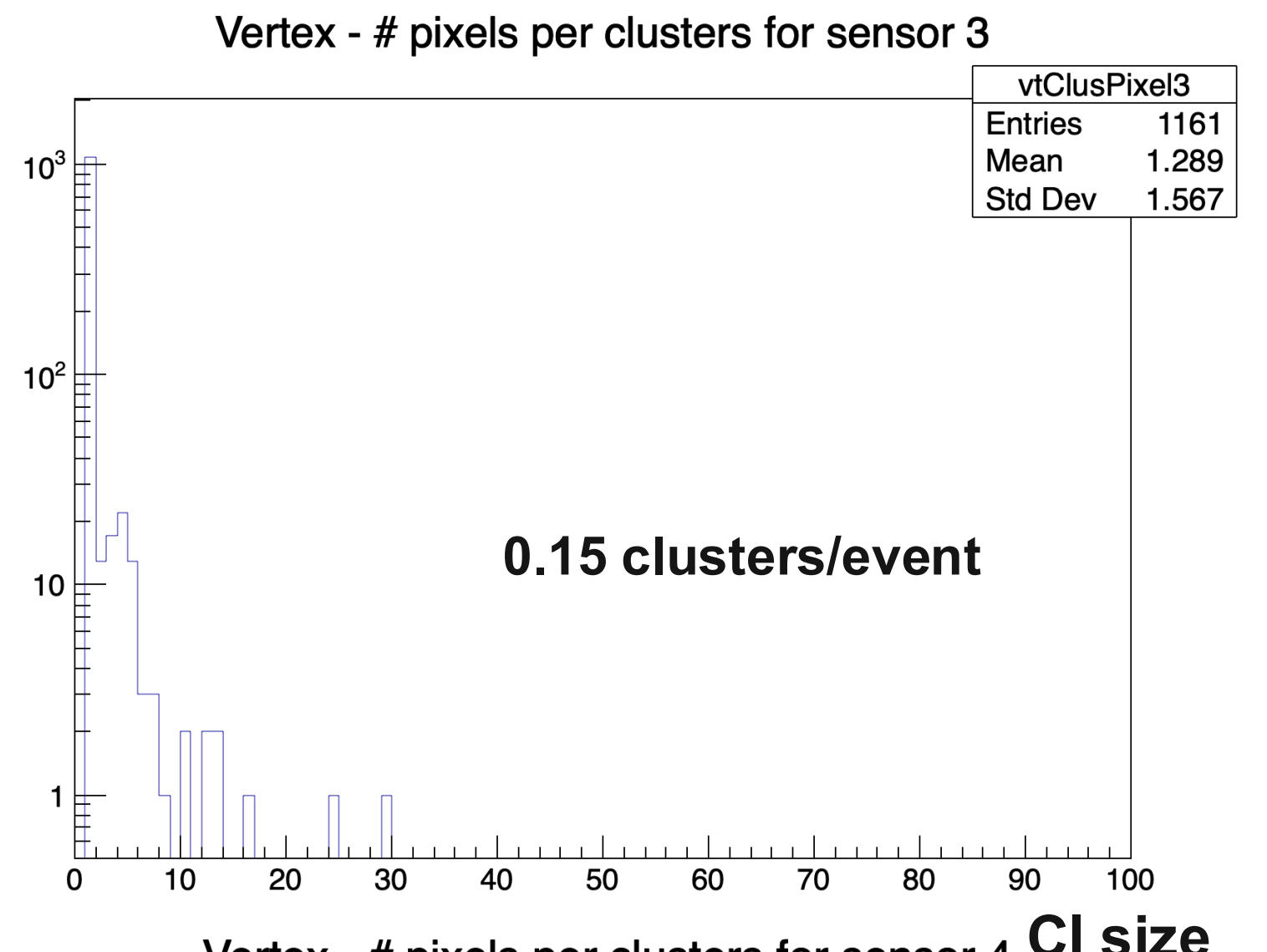
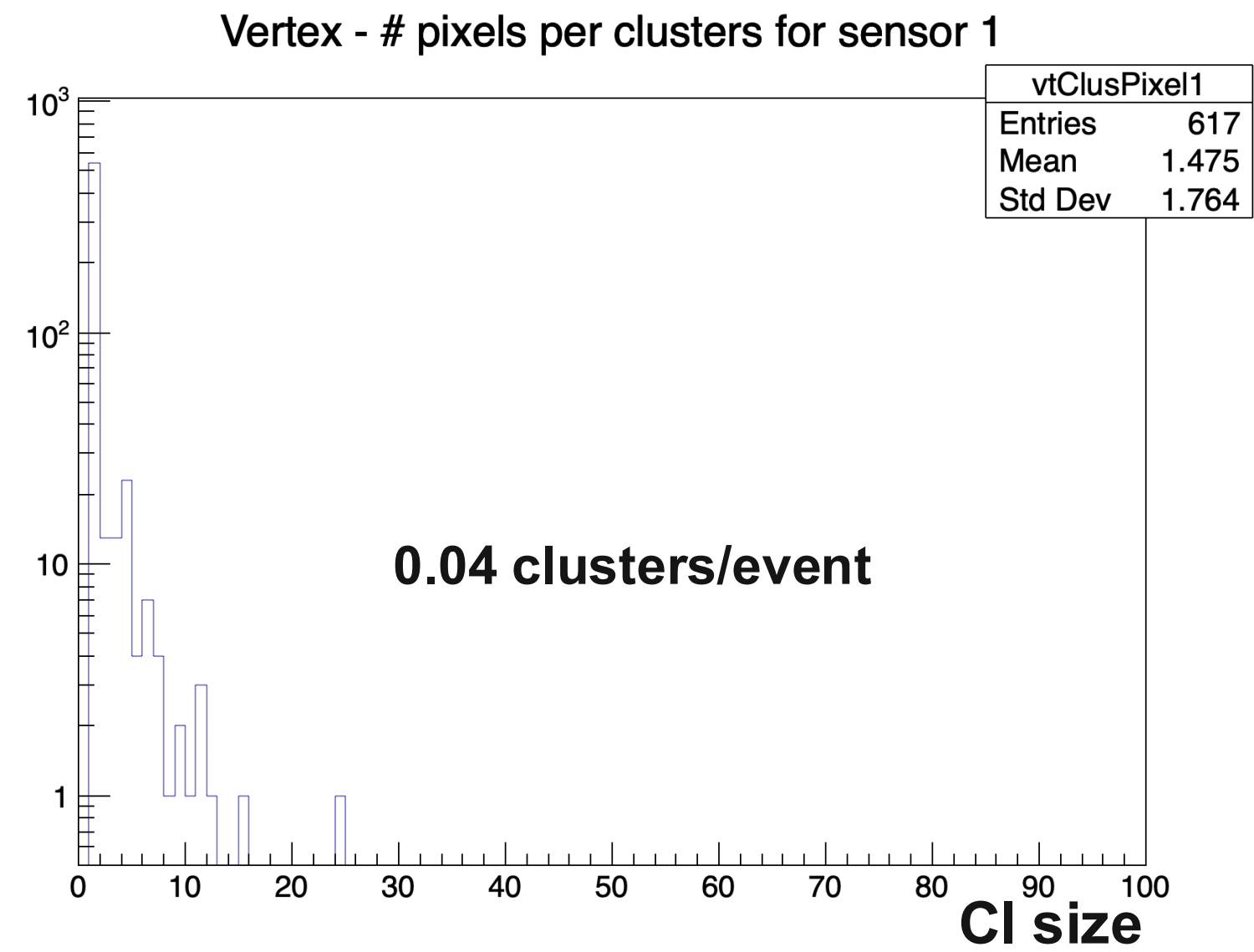


Noisy pixels < 0.85% after masking

Thresholds: 7 sigmas for all sensors

runs 7871 7872 7885 7904 7907 7912

Noise in pedestal runs [after crazy p beam]

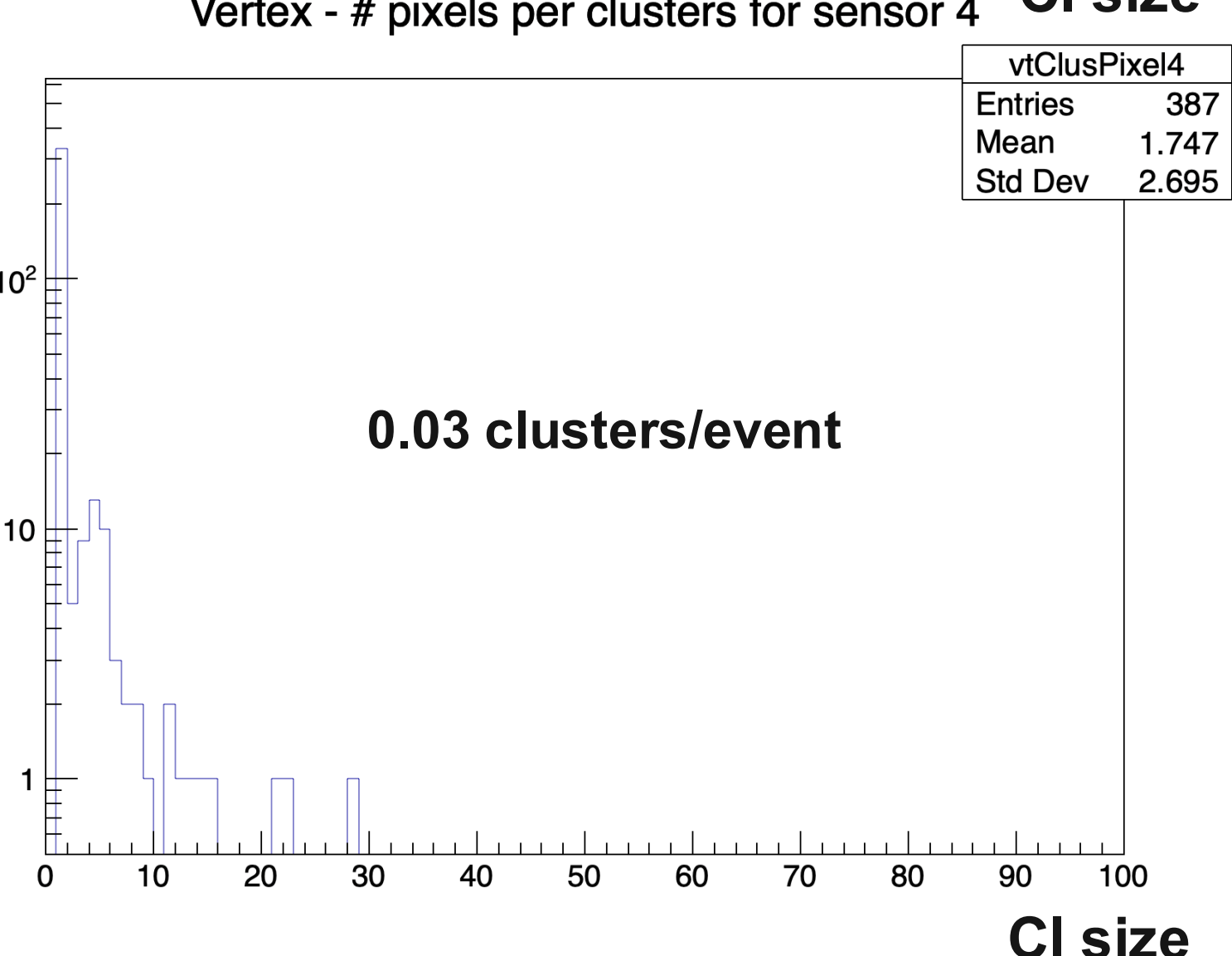
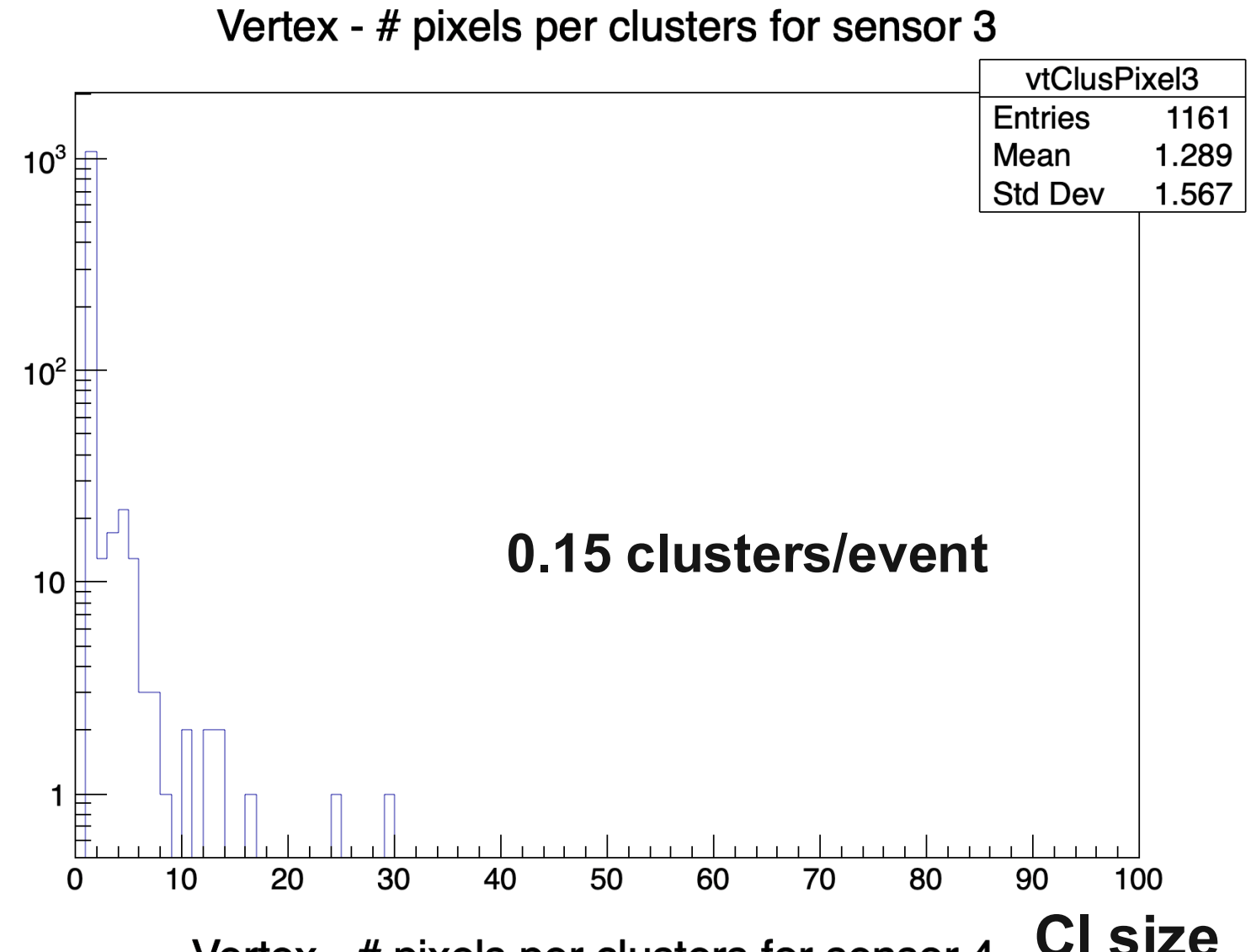
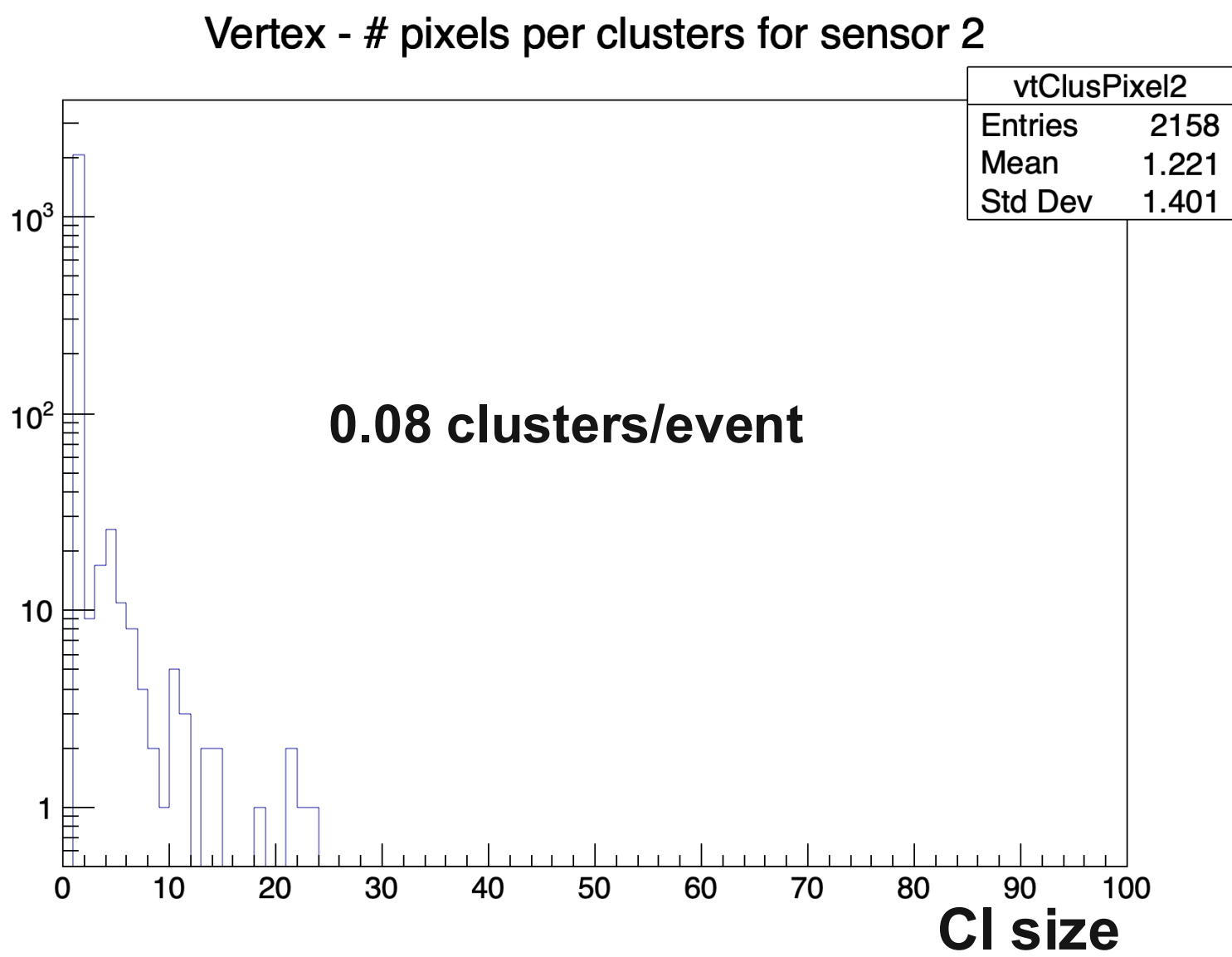
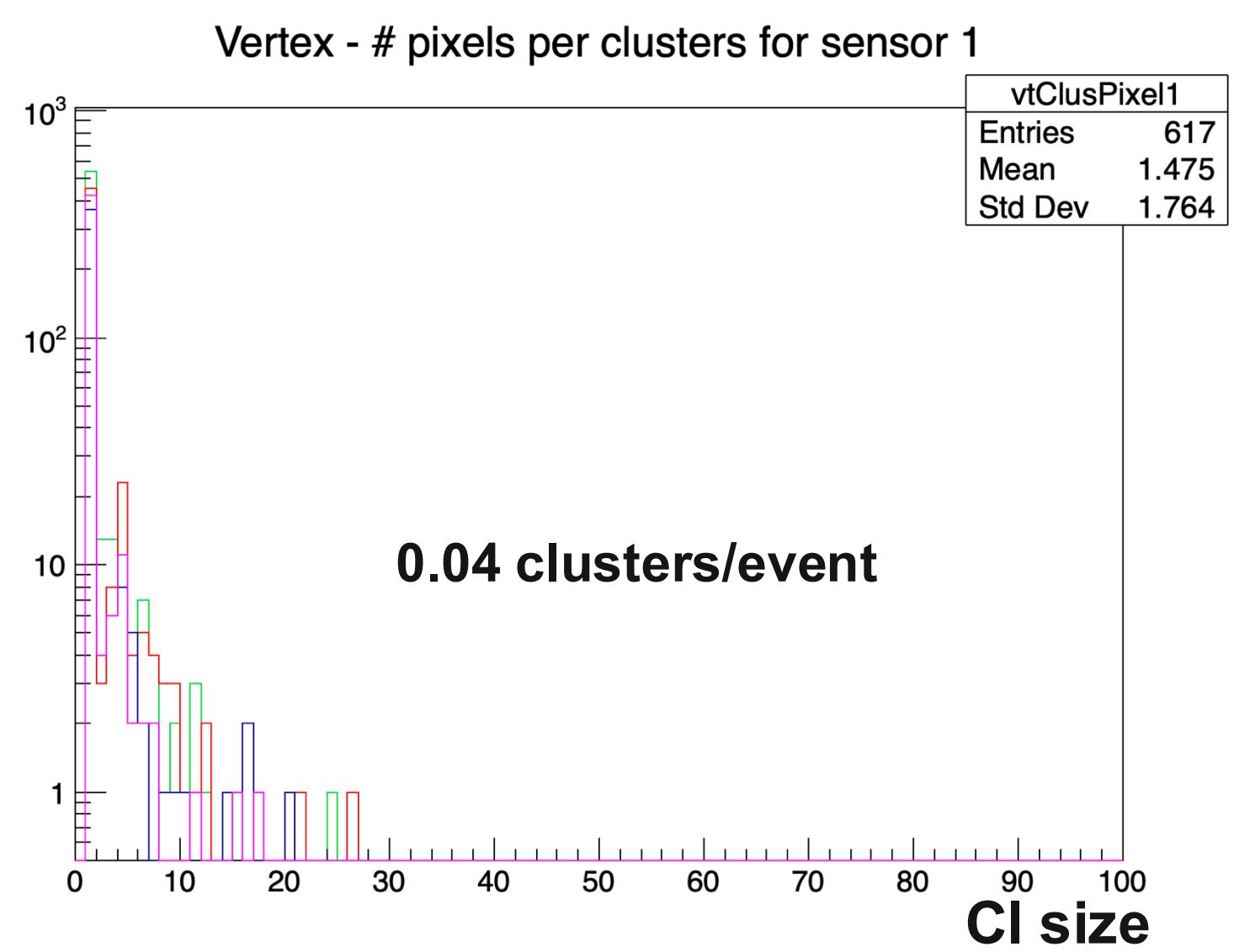


Noisy pixels < 0.85% after masking

Thresholds: 7 sigmas for all sensors

runs 7920 7926 7929 7939

Noise in pedestal runs [after crazy p beam]



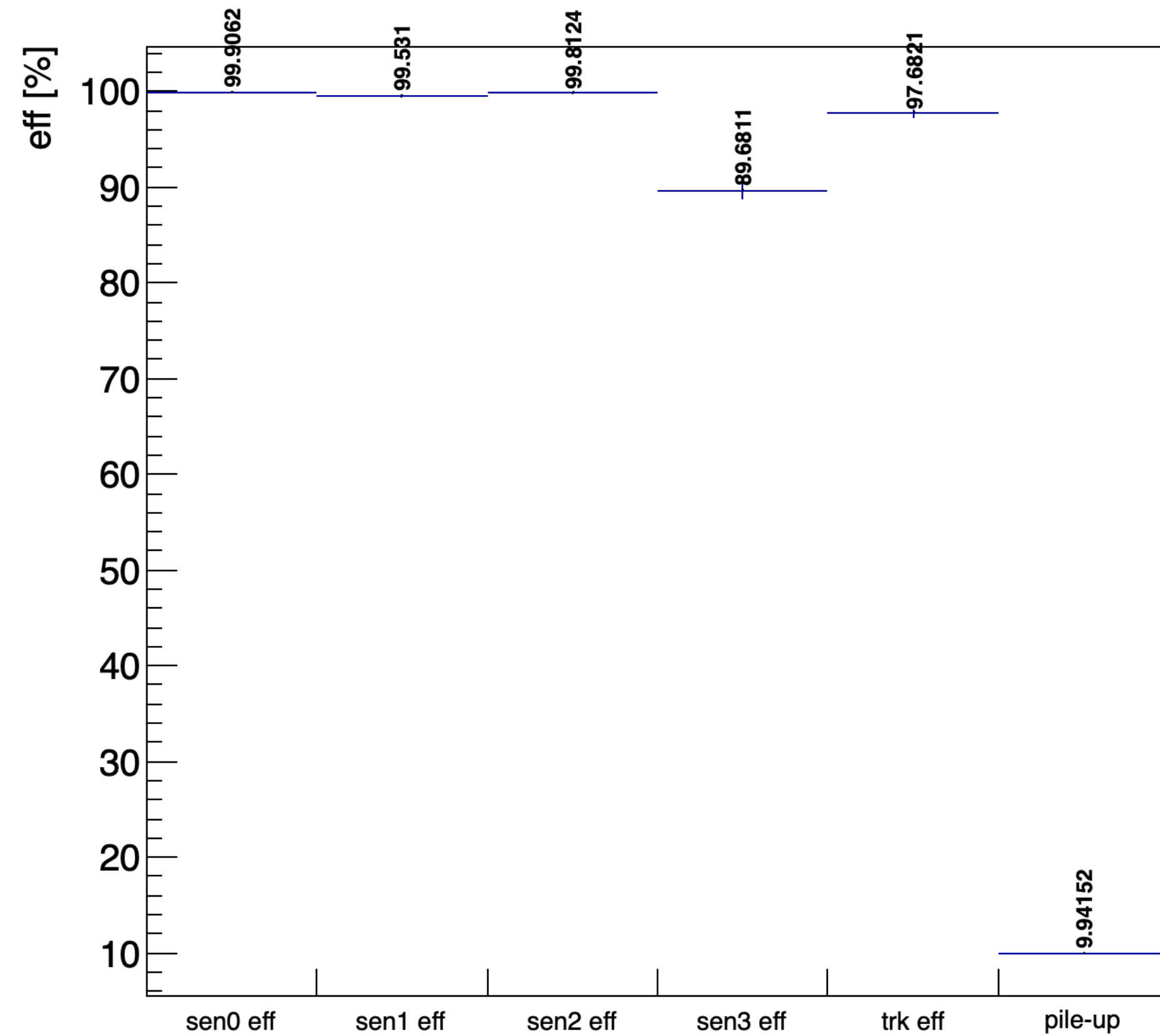
Noisy pixels < 0.85% after masking

Thresholds: 7 sigmas for all sensors

runs 7920 7926 7929 7939

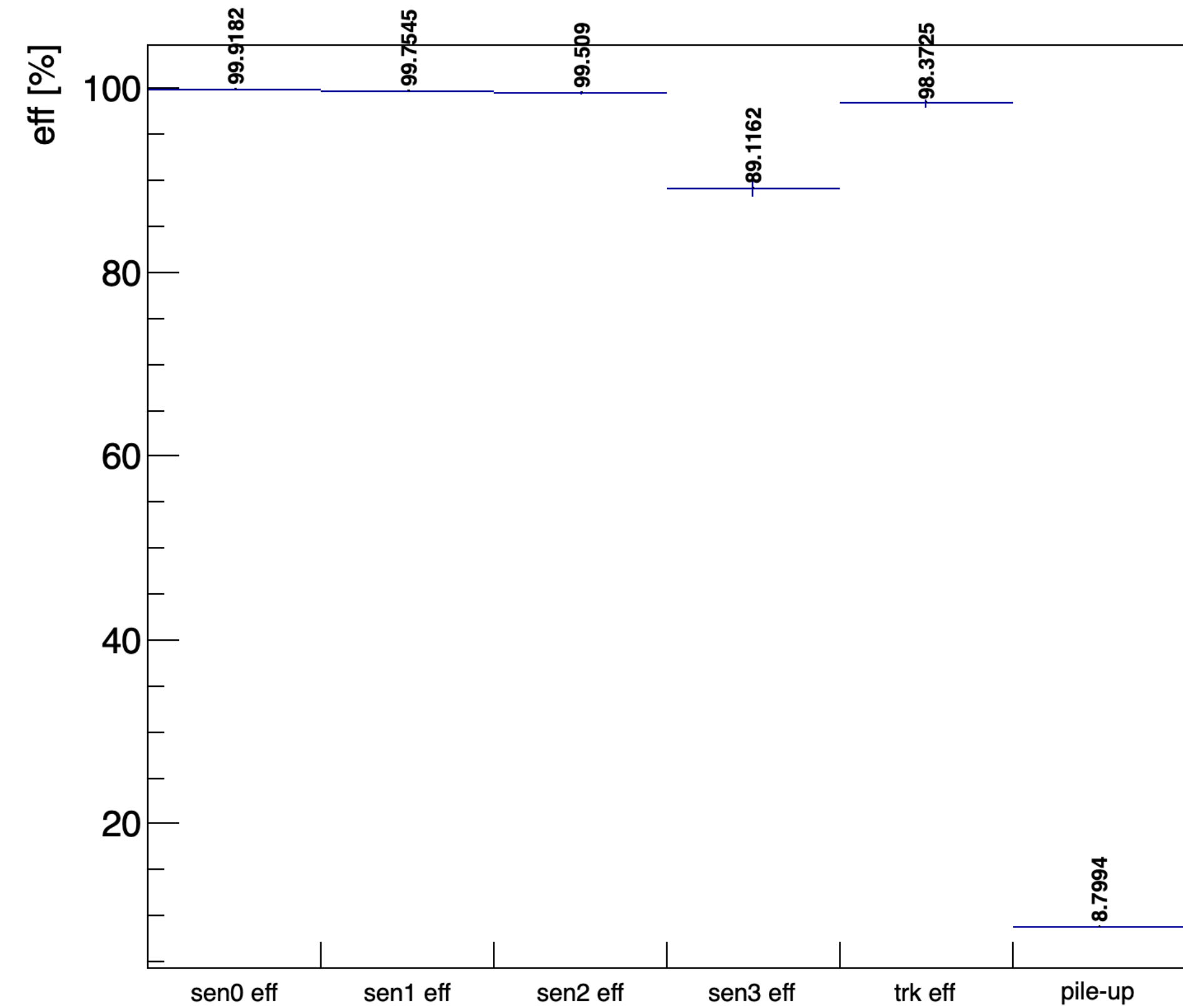
Proton efficiency

Vertex efficiency



Runs: 7886 7887 -> protons @ 230 MeV

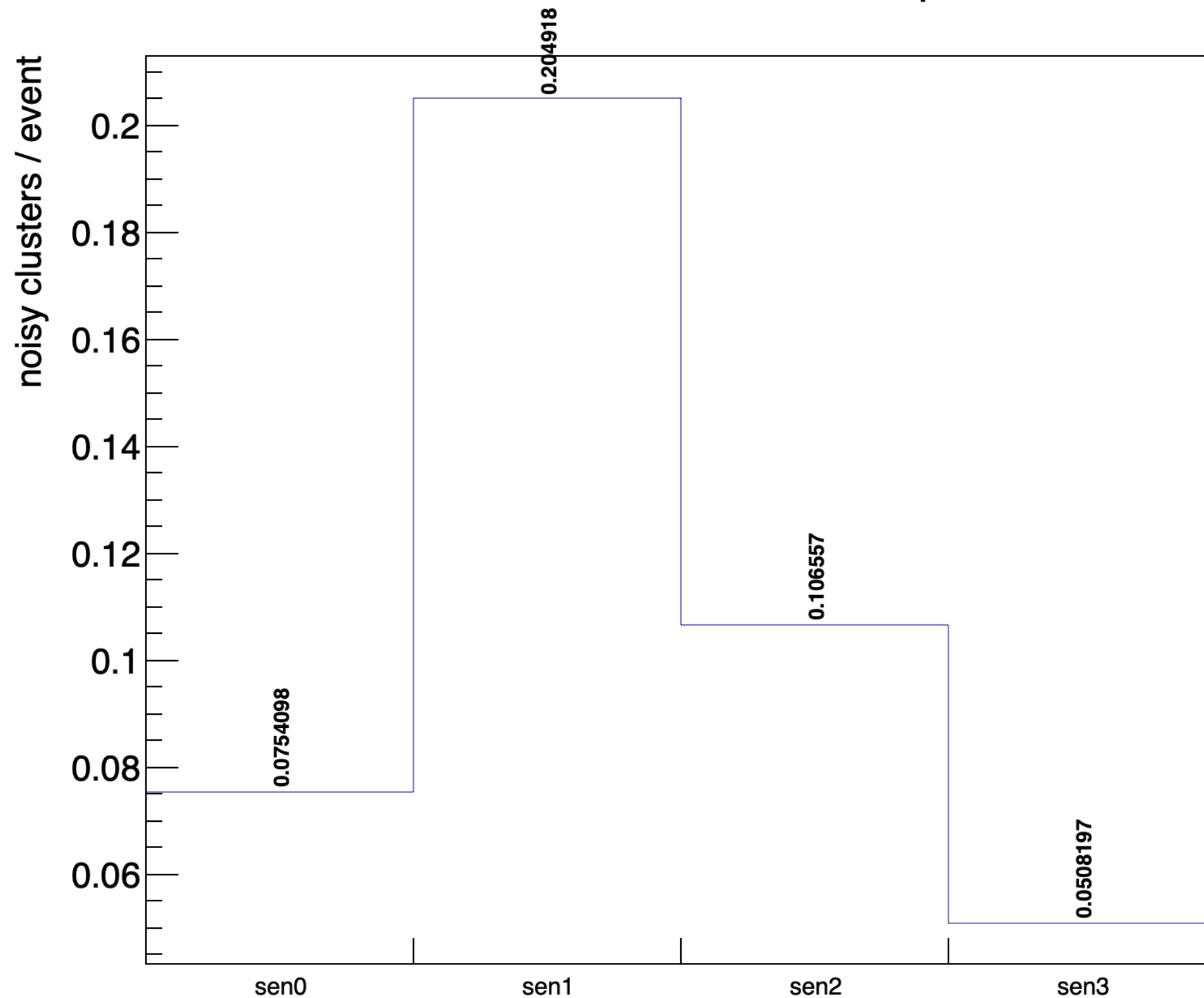
Vertex efficiency



Runs: 7888, 7905 -> protons @ 150 MeV

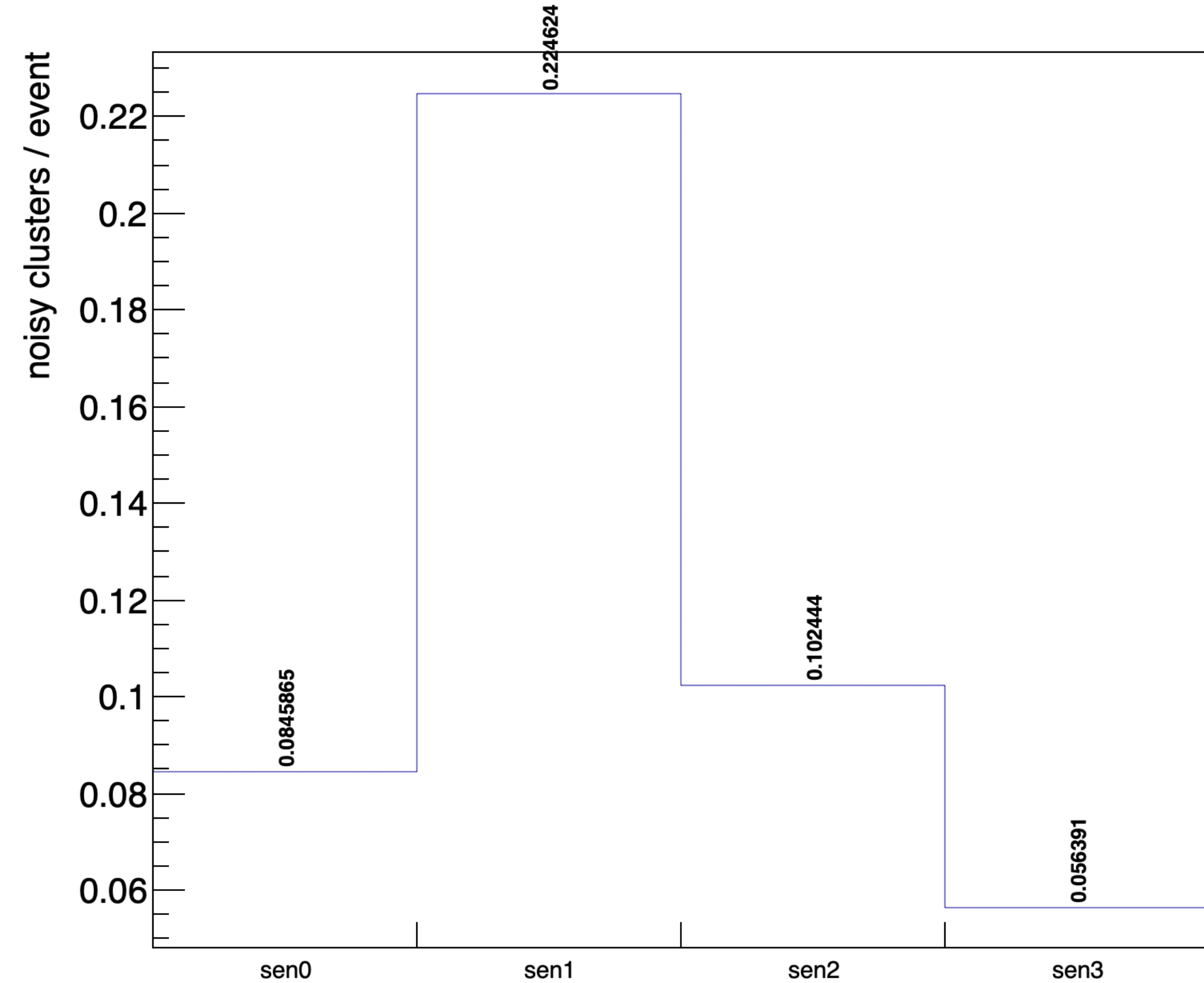
Noise during proton runs

VTX Noise - Not tracked Custers per event



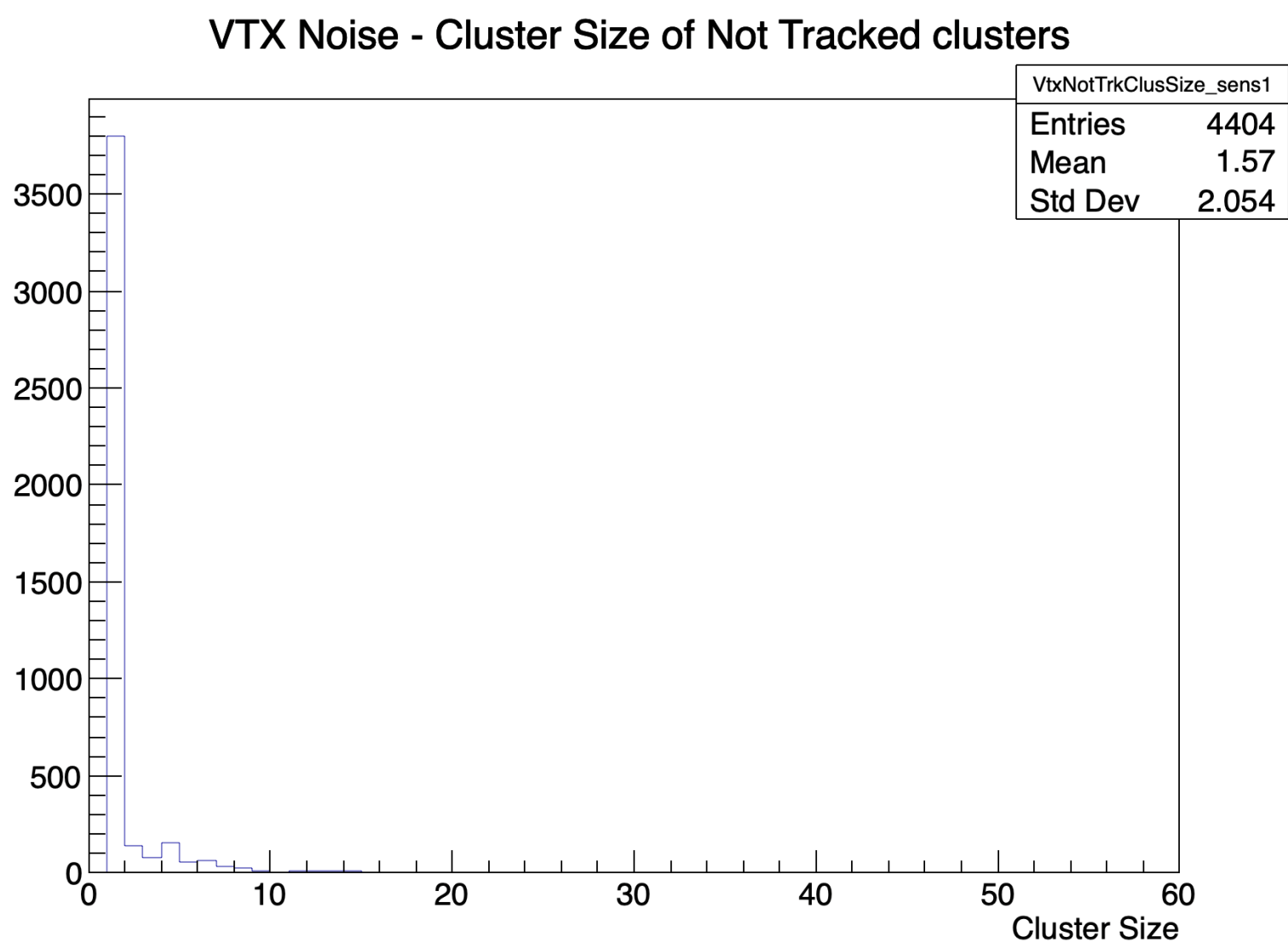
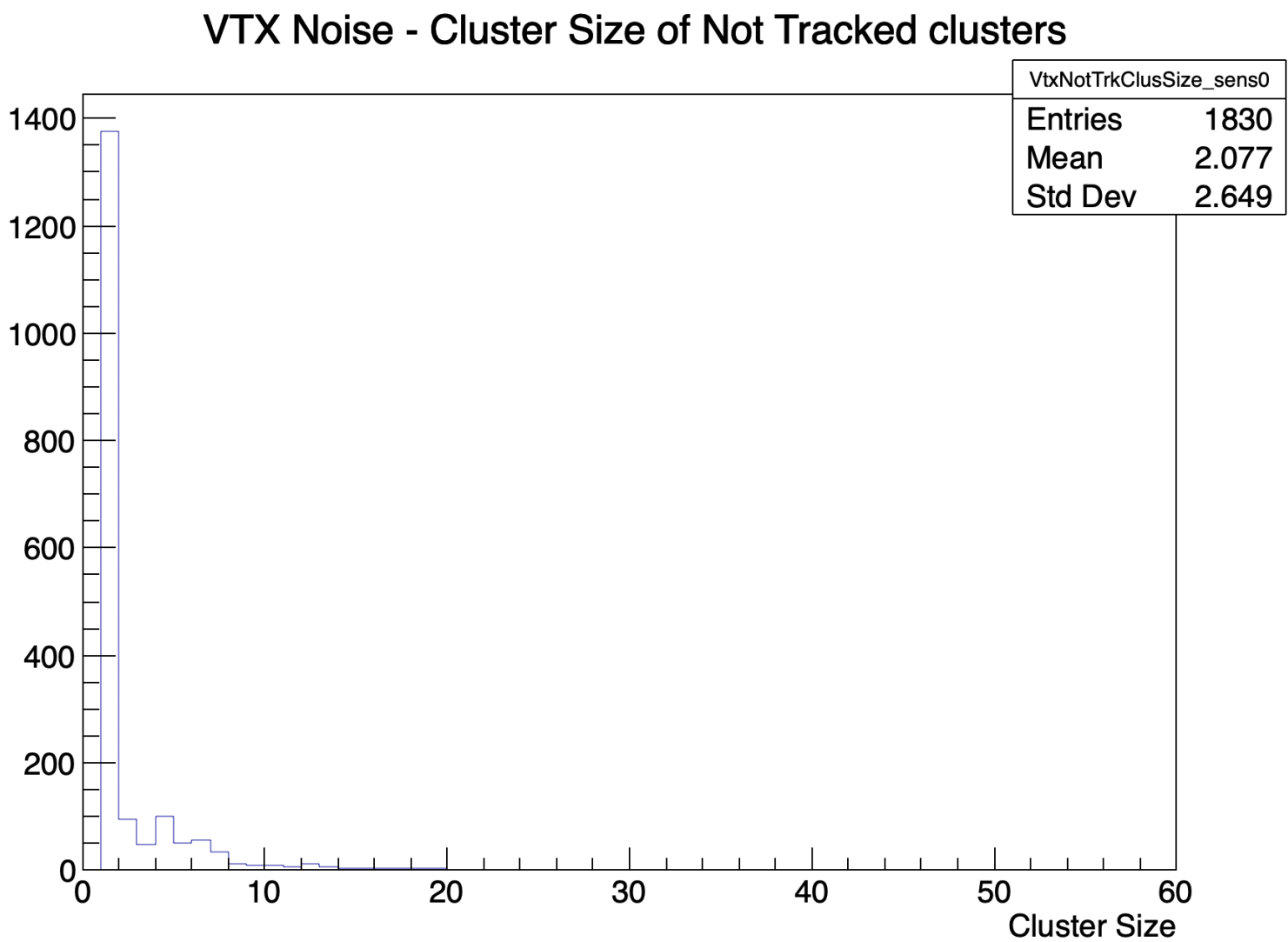
Runs: 7886 7887 -> protons @ 230 MeV

VTX Noise - Not tracked Custers per event

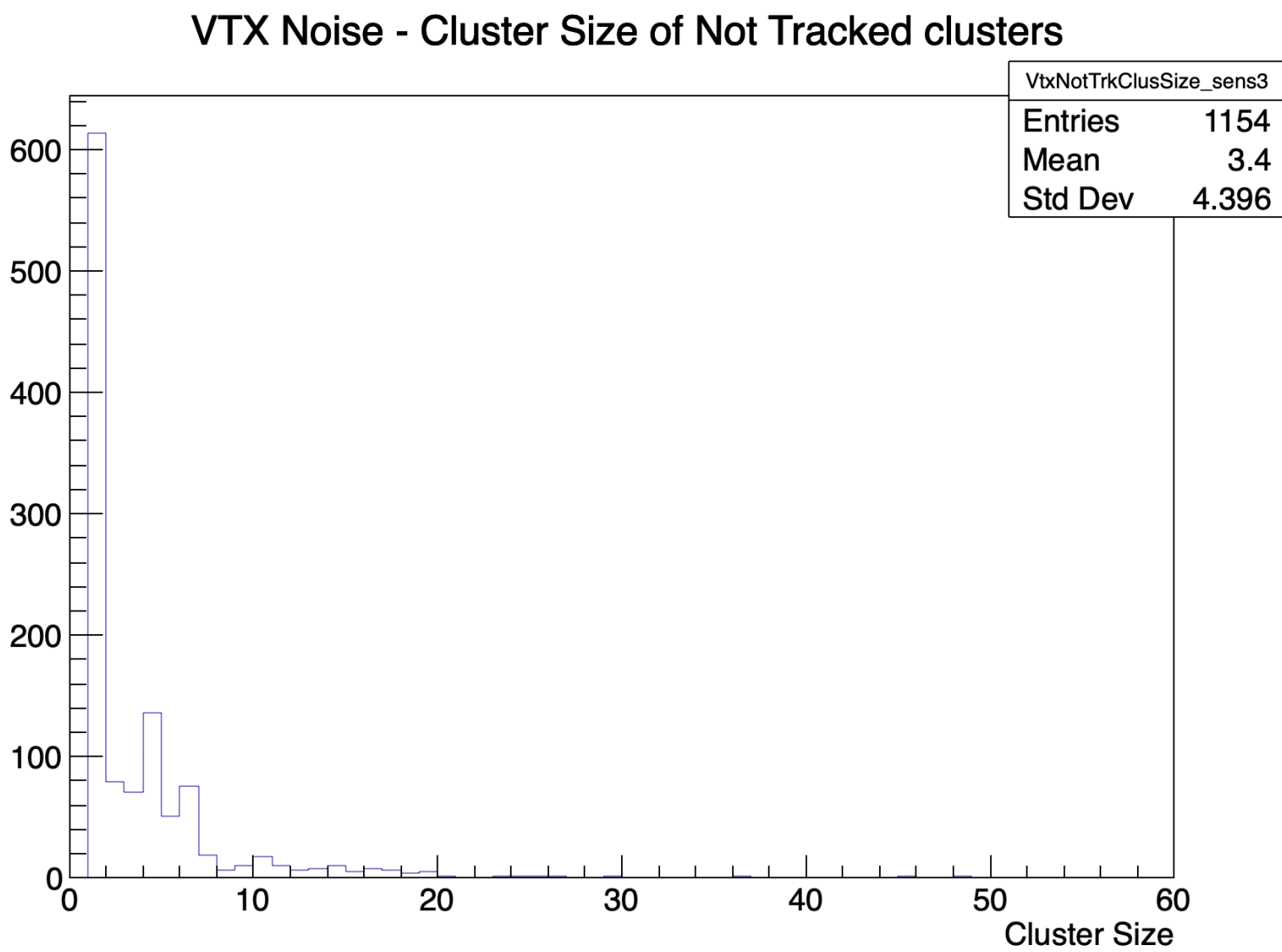
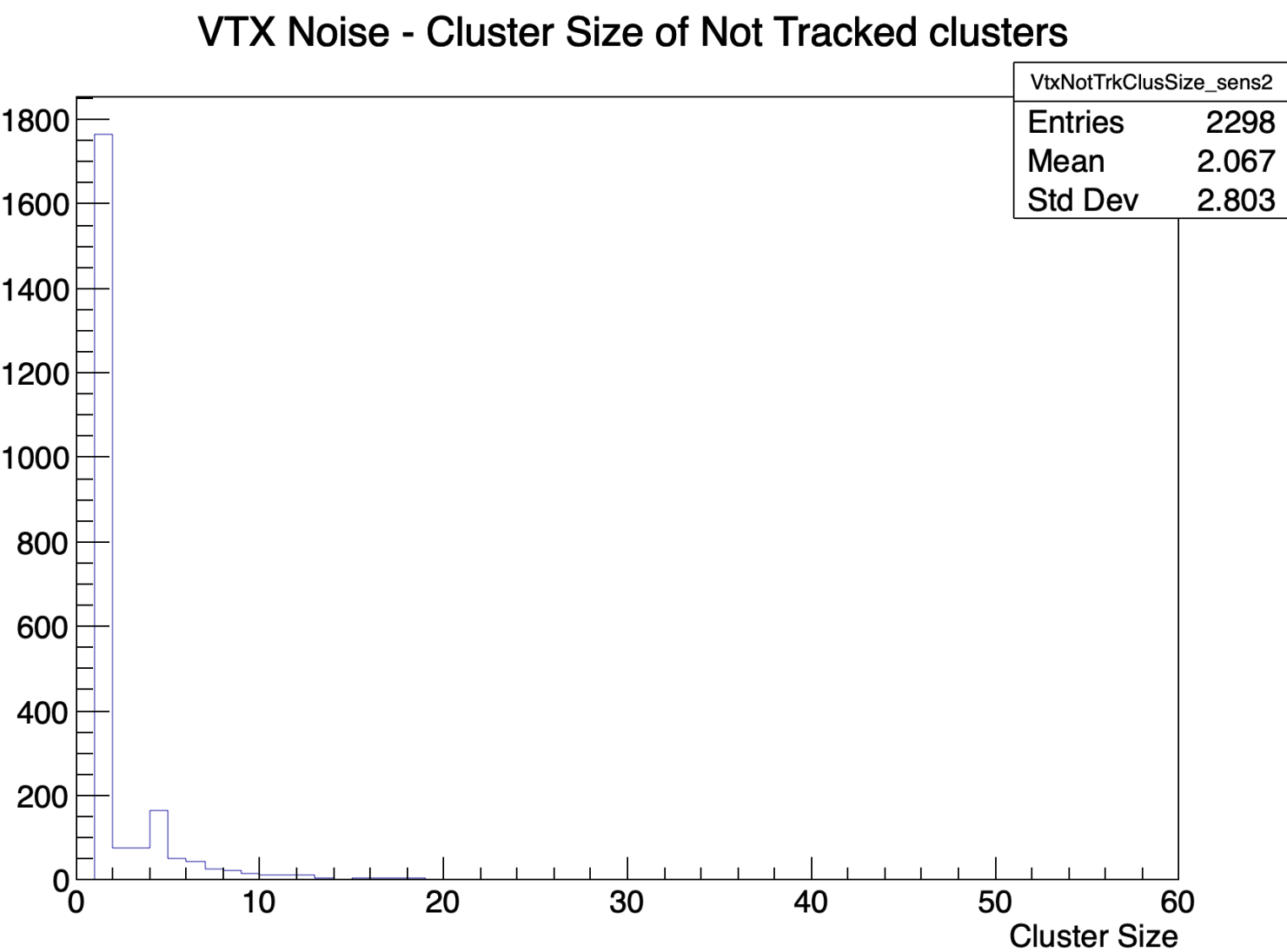


Runs: 7888, 7905 -> protons @ 150 MeV

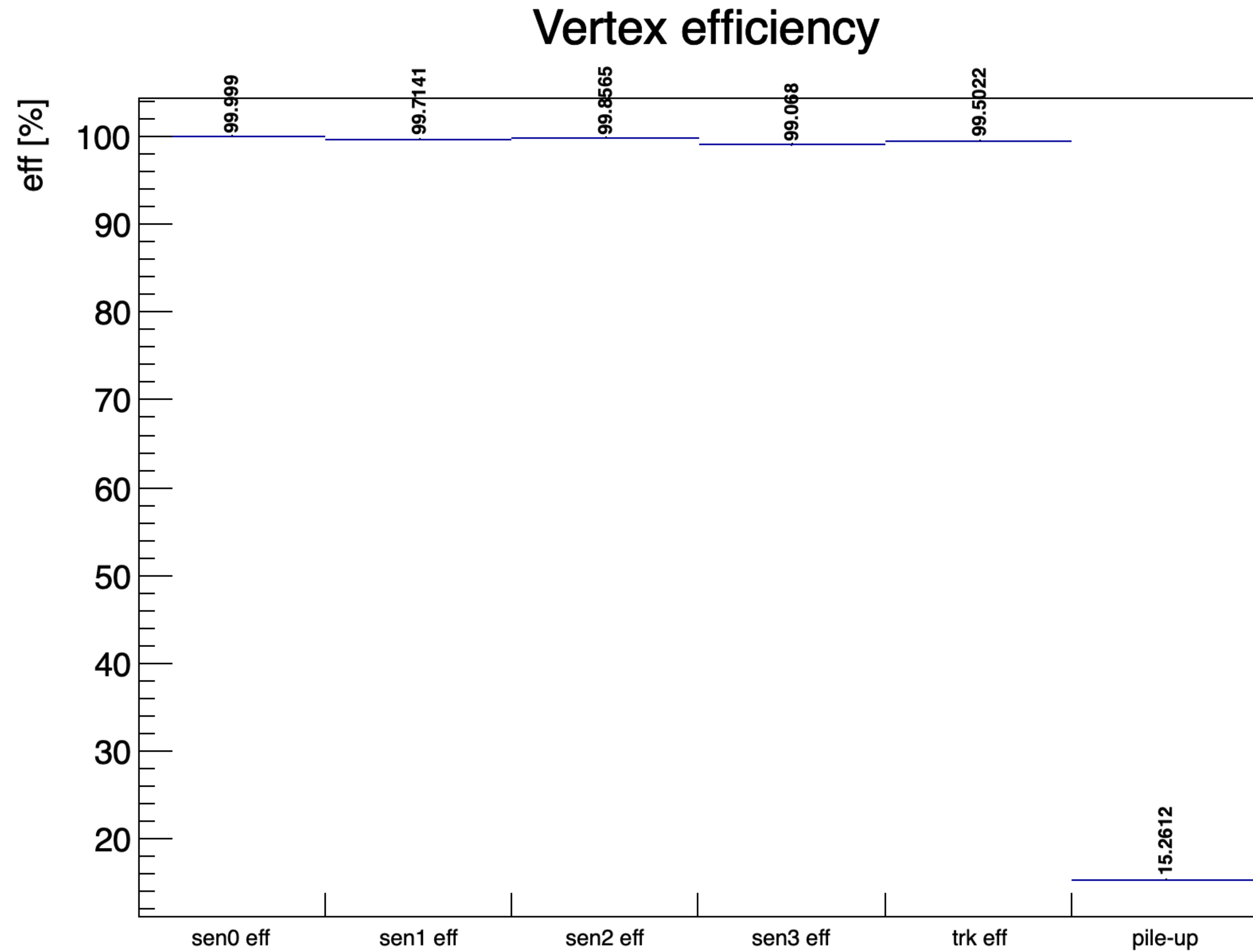
Noise cluster size proton runs



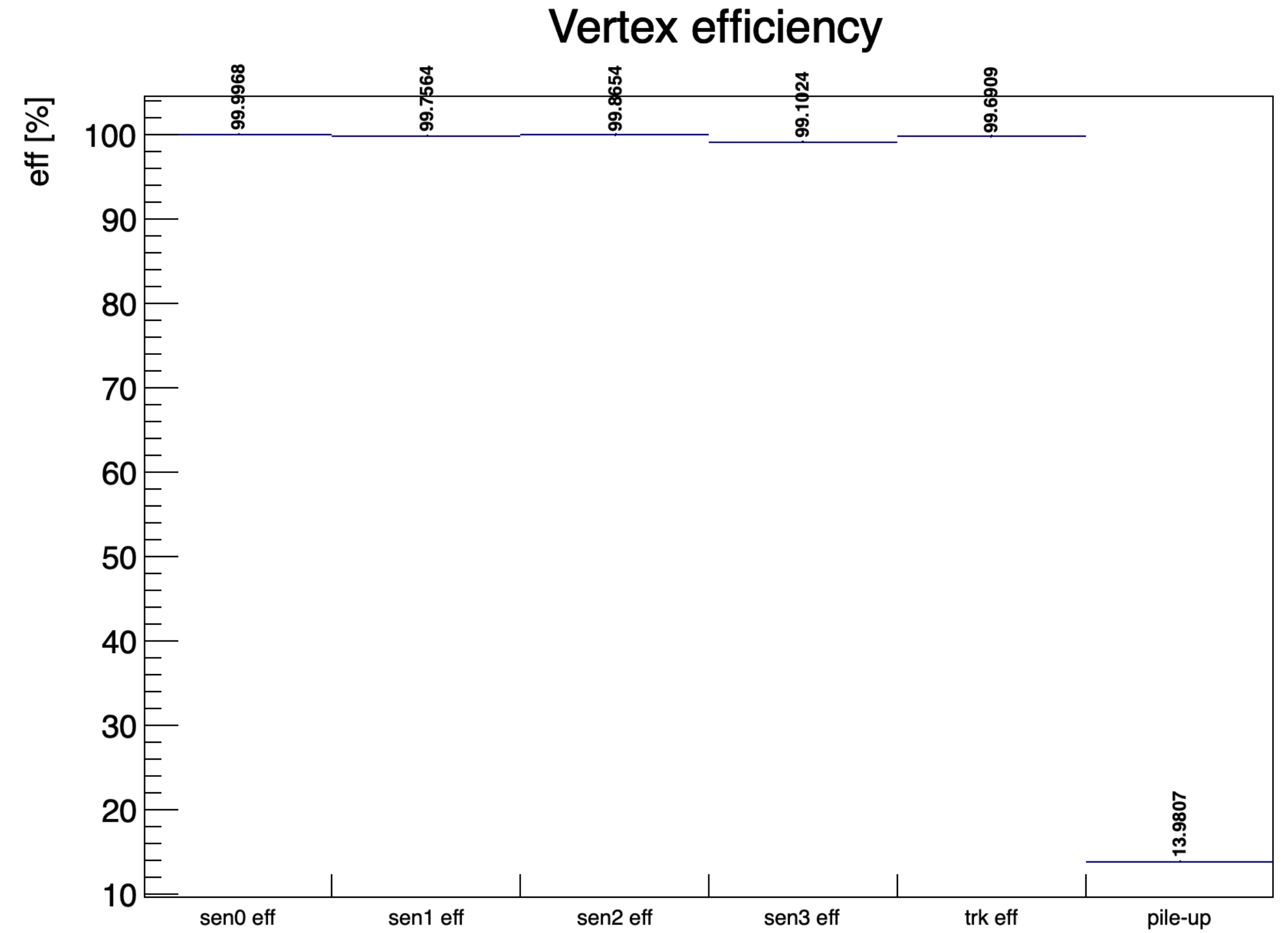
Stable for all proton runs (only first night)



Efficiency for carbon runs



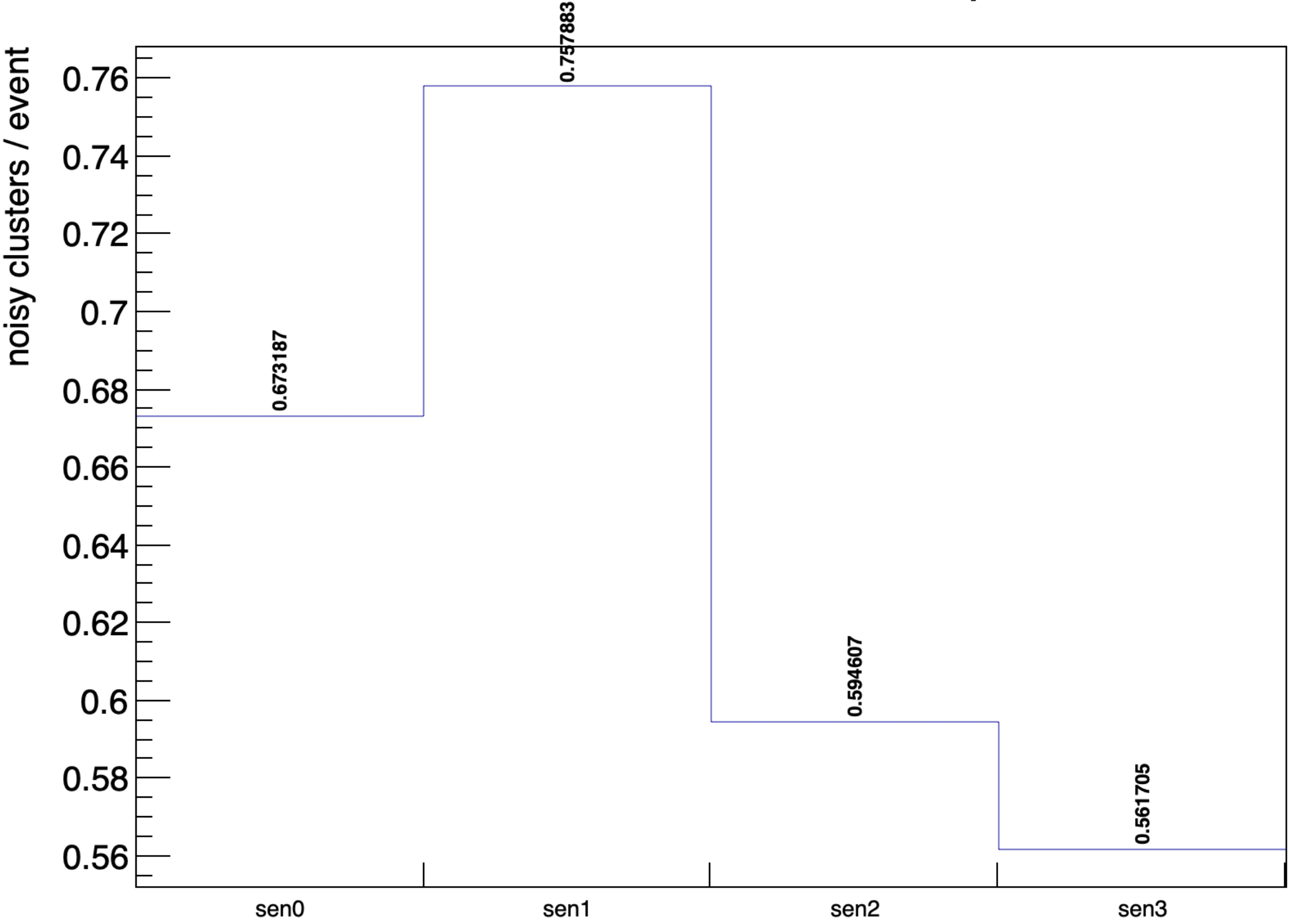
1° night



2° night

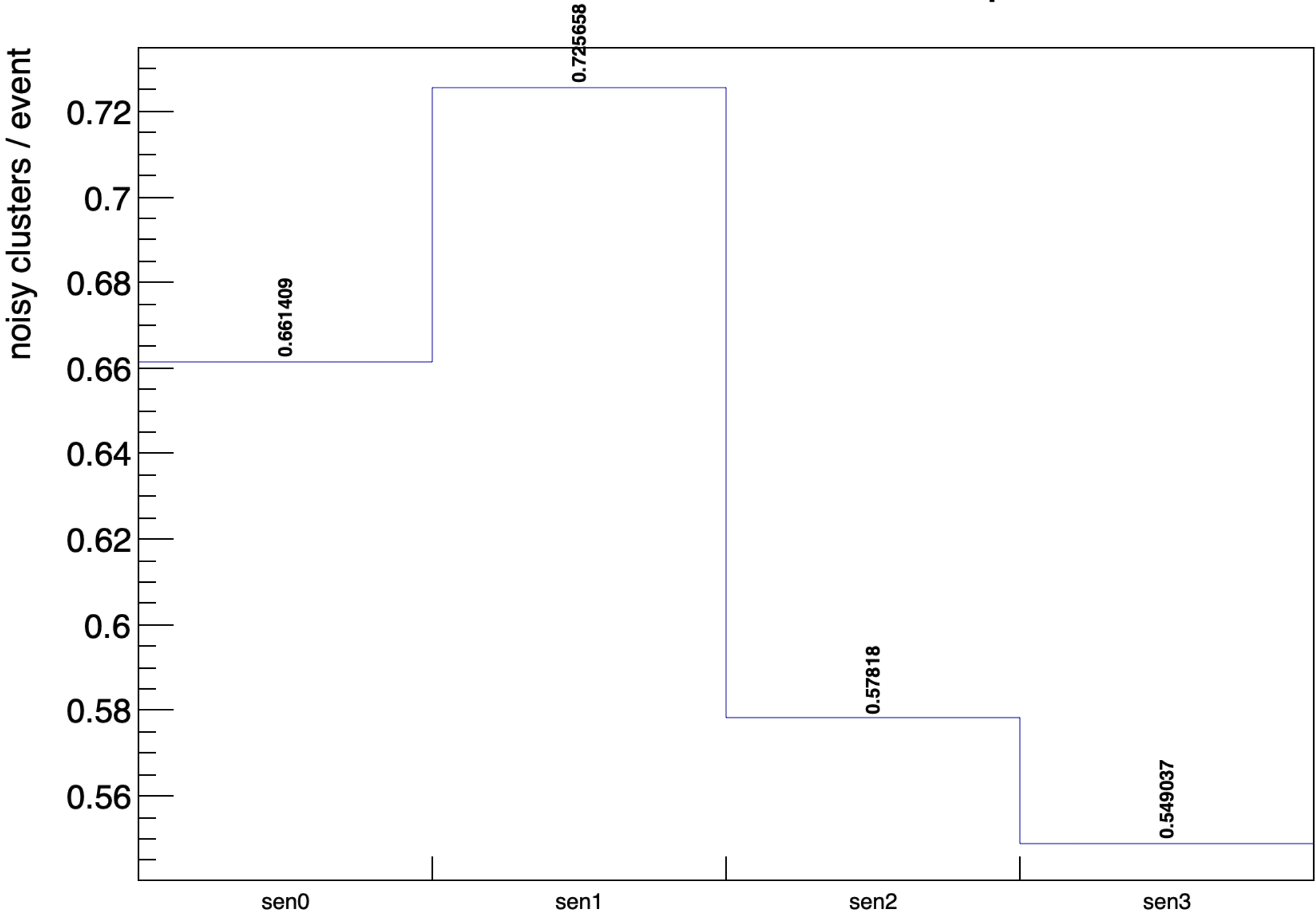
Noise during carbon runs

VTX Noise - Not tracked Custers per event



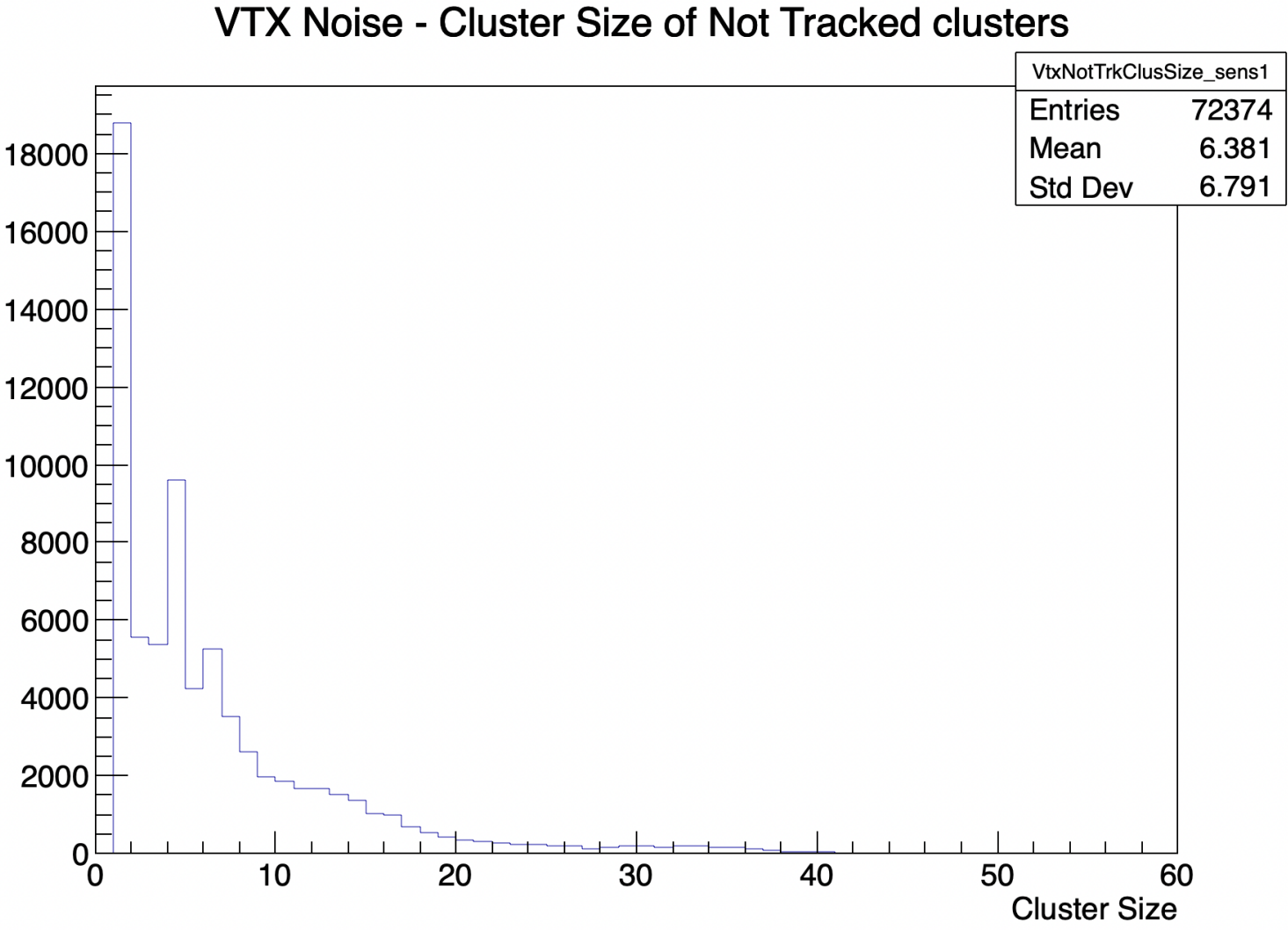
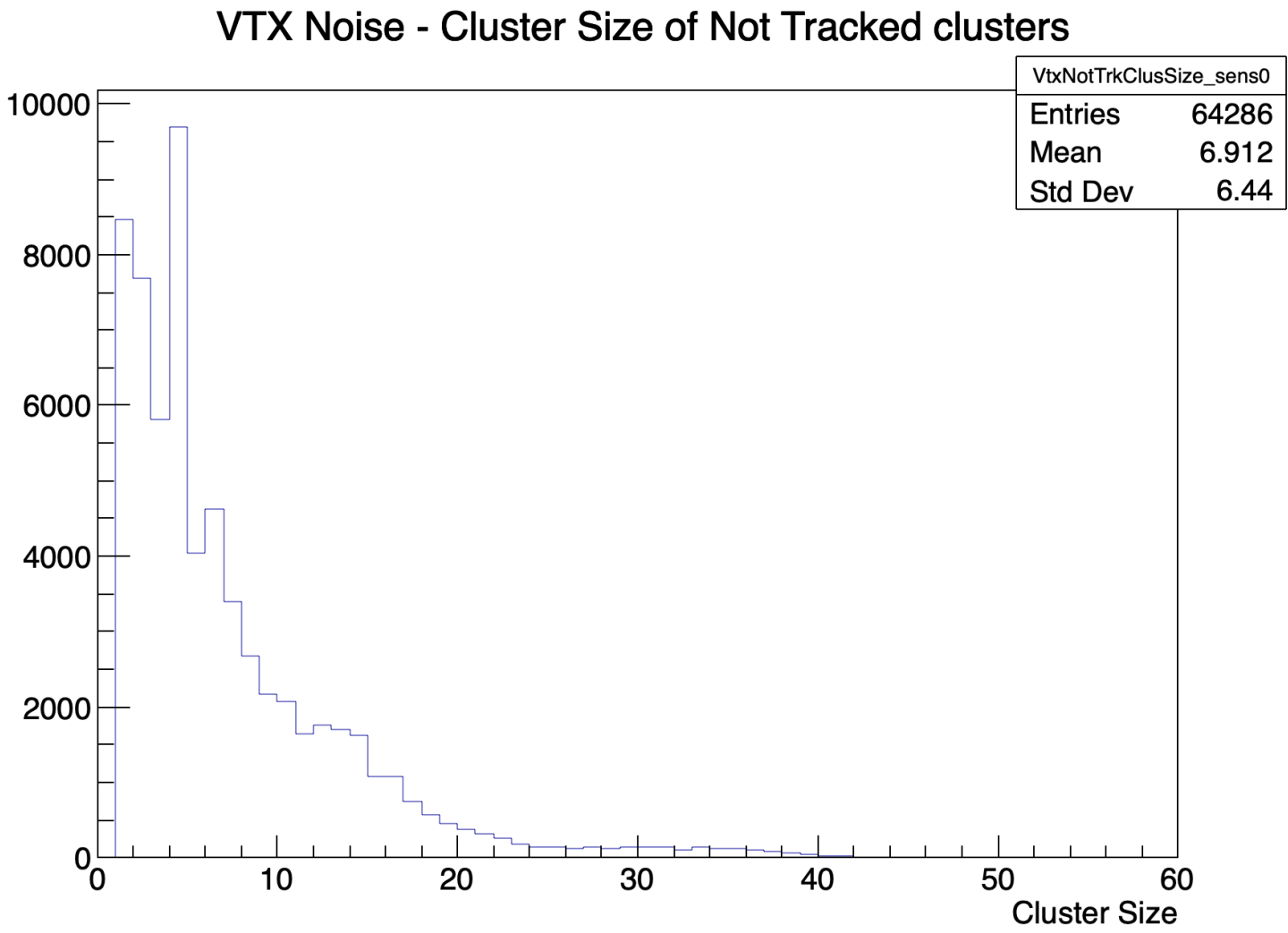
1° night

VTX Noise - Not tracked Custers per event

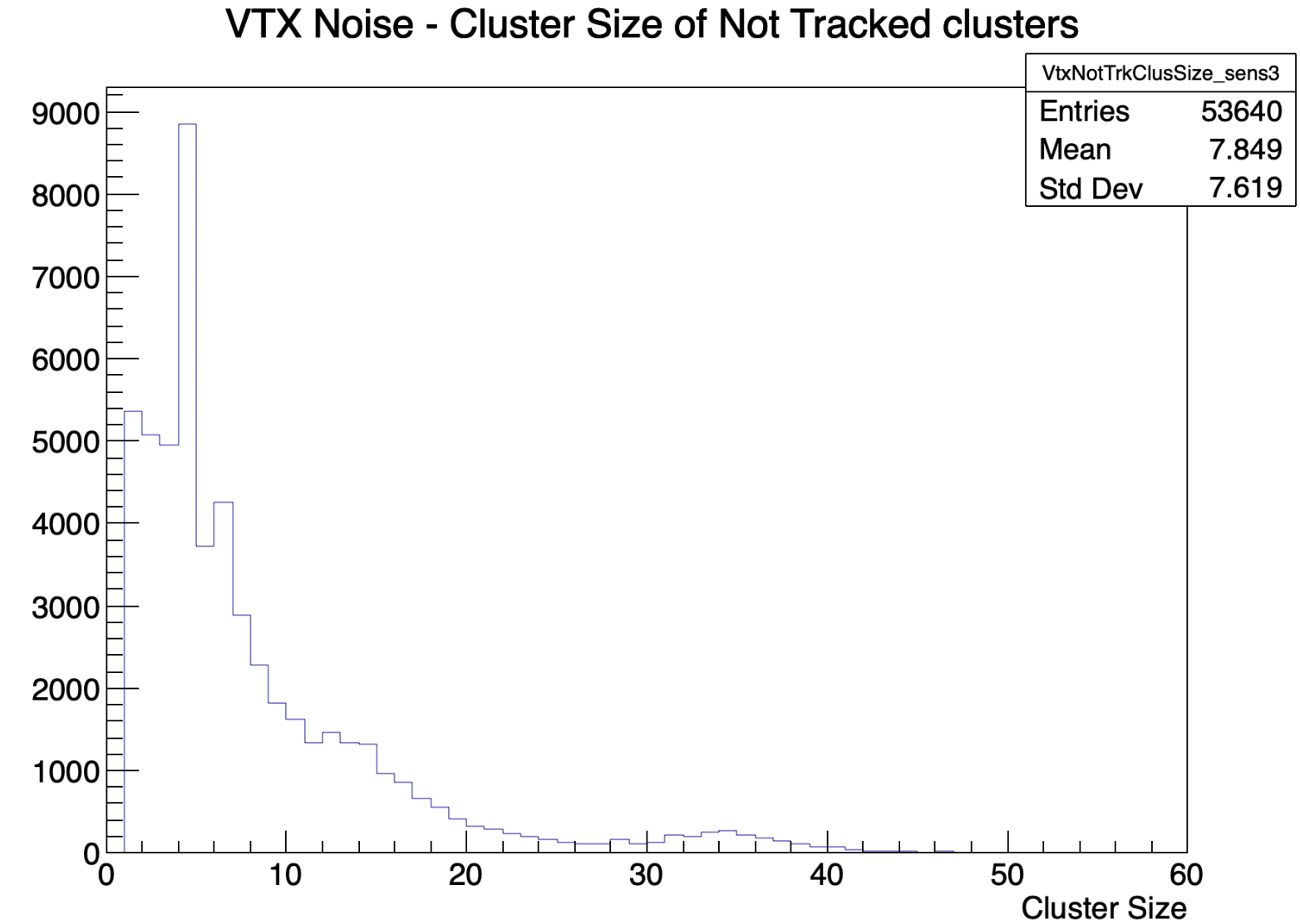
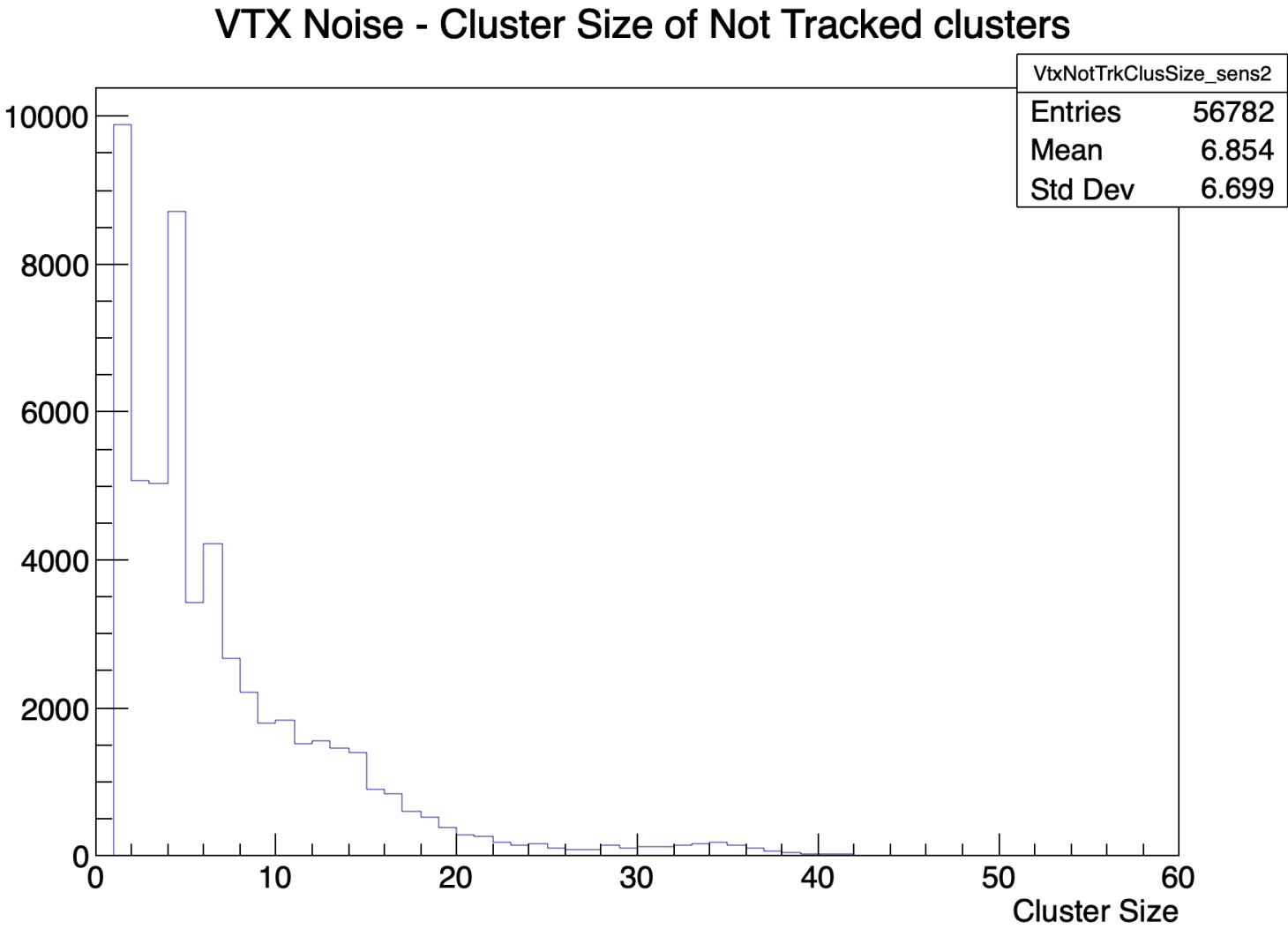


2° night

Noise cluster size carbon runs

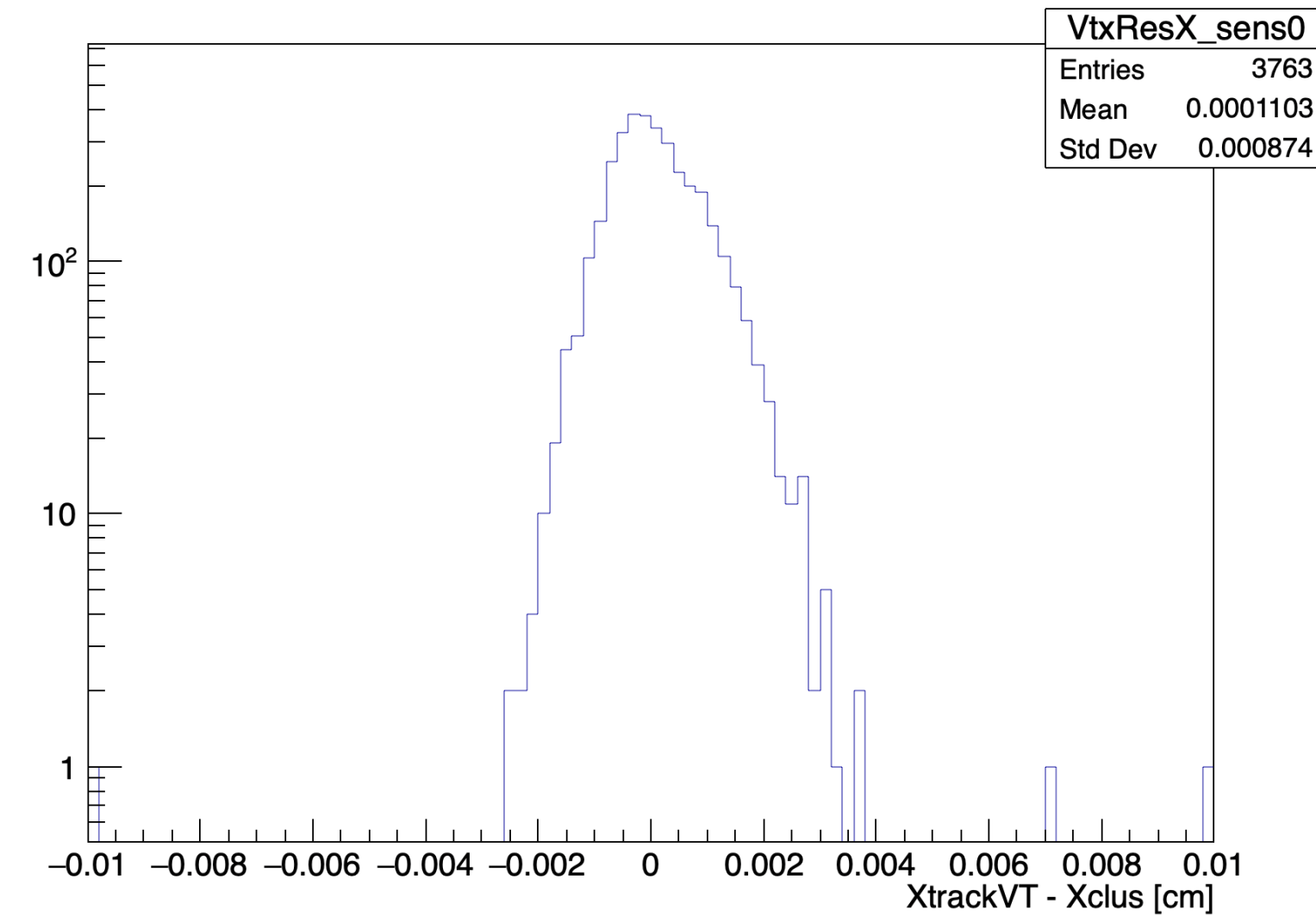


Same for both nights

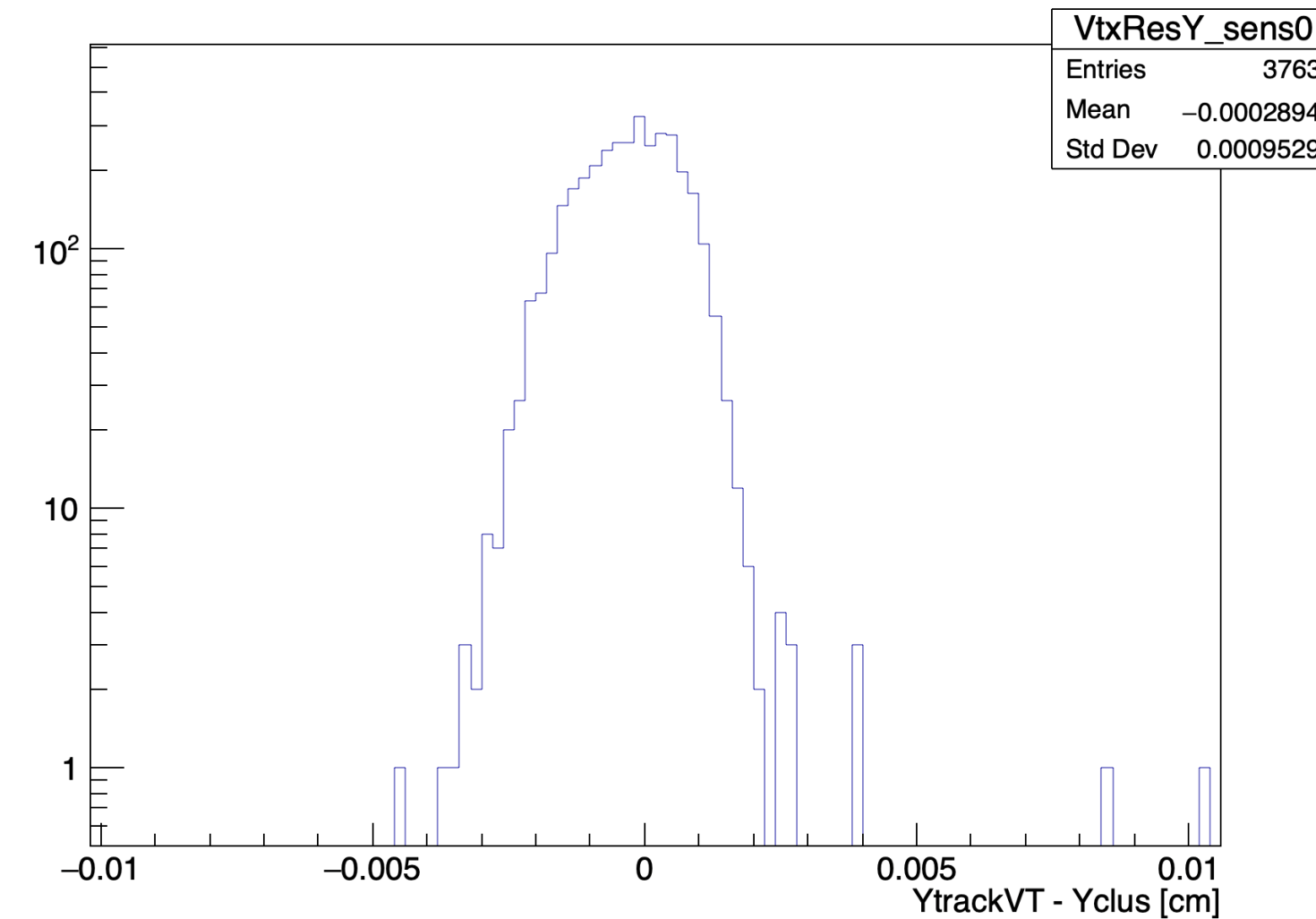


VTX alignment: protons

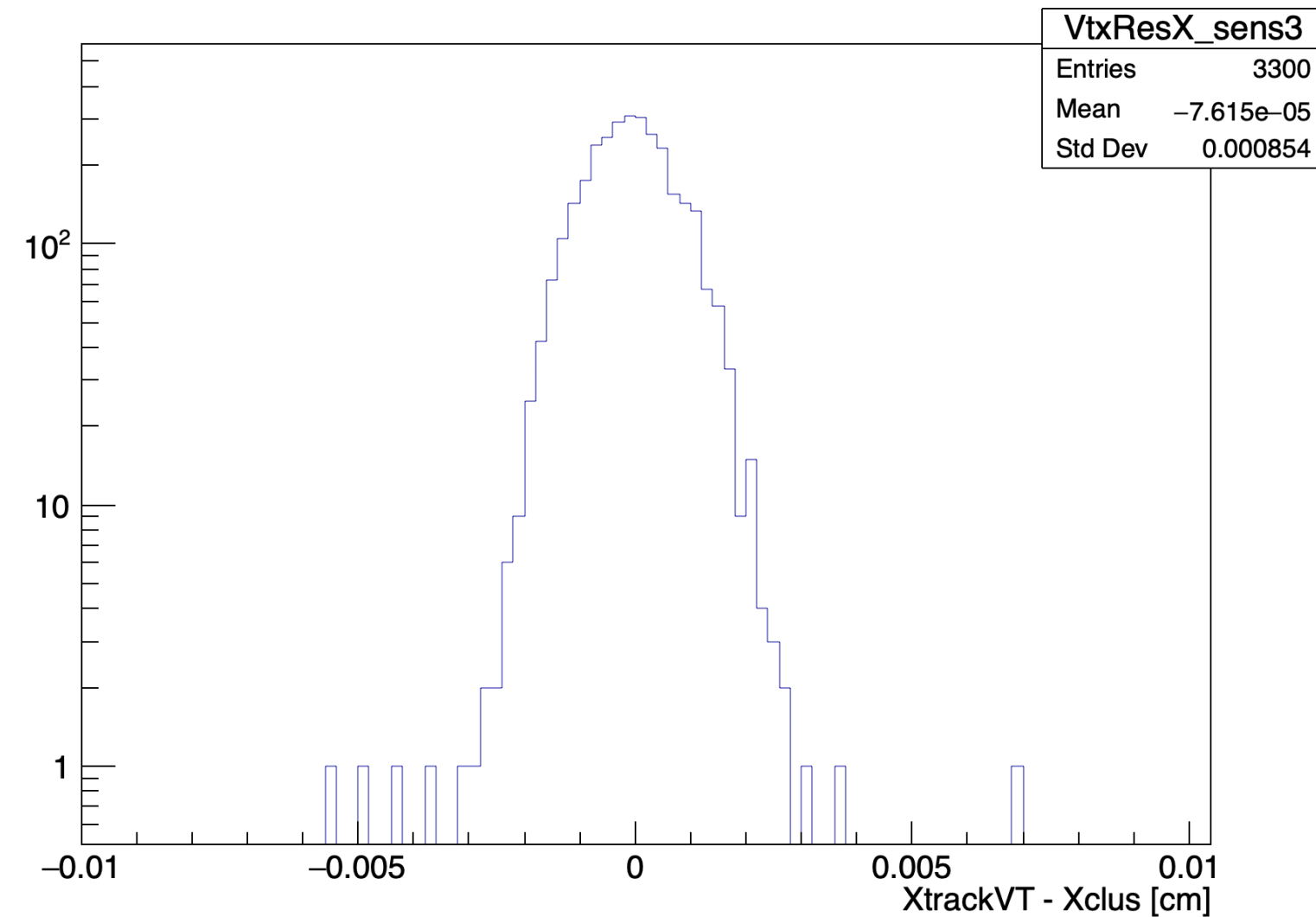
Residual VT Track vs Vtx Clus



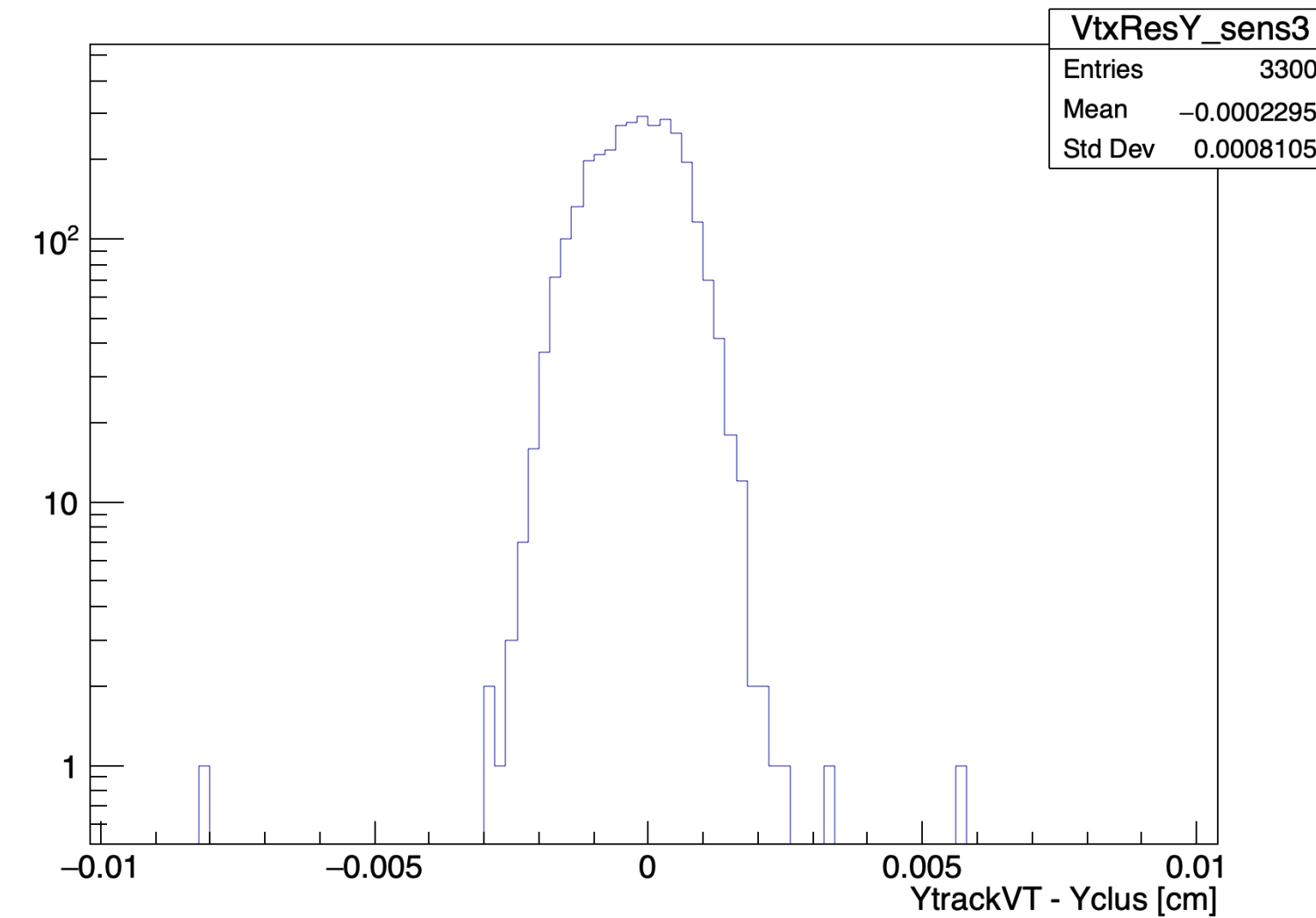
Residual VT Track vs Vtx Clus



Residual VT Track vs Vtx Clus



Residual VT Track vs Vtx Clus



VTX alignment: carbons

