

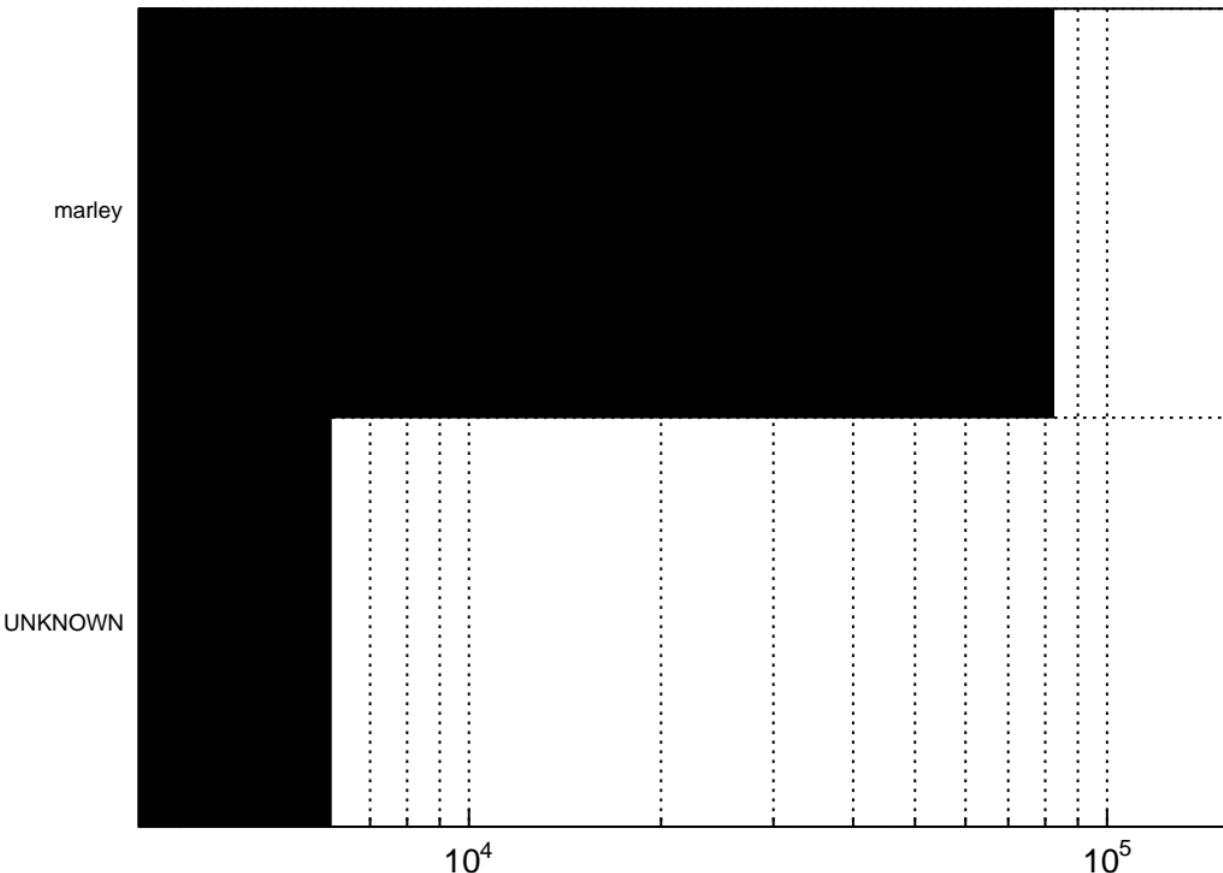
Cluster Analysis Report

Path: /home/virgolaema/dune/online-pointing-utils/data/prod_cc//

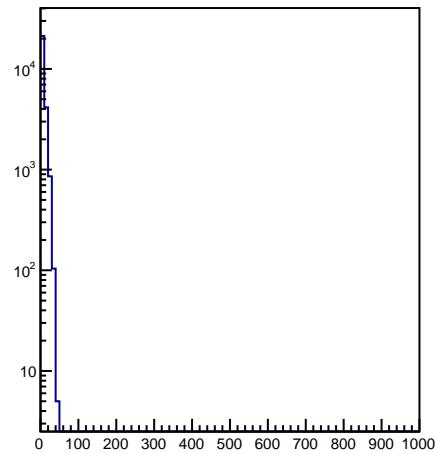
File: cc_valid_tick5_ch2_min2_tot1_clusters.root

Generated on: Fri Oct 10 10:06:37 2025

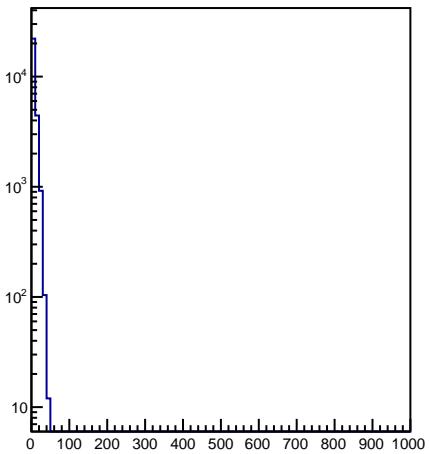
Clusters by true label



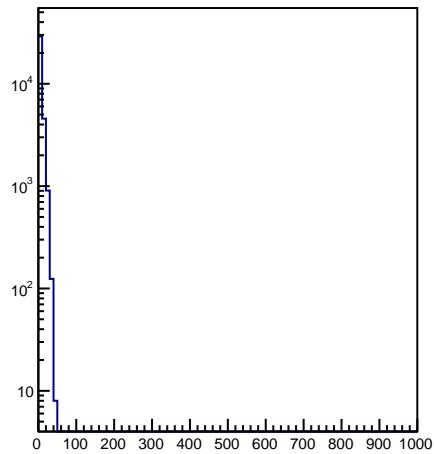
Cluster size (n_tps) - U



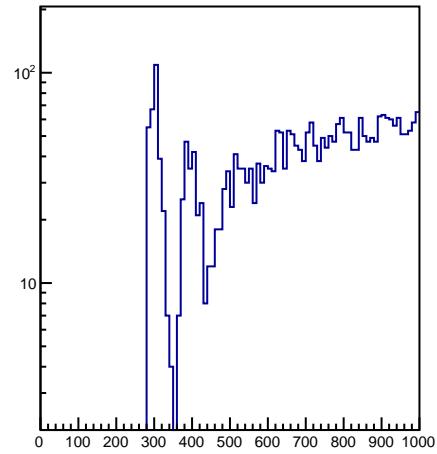
Cluster size (n_tps) - V



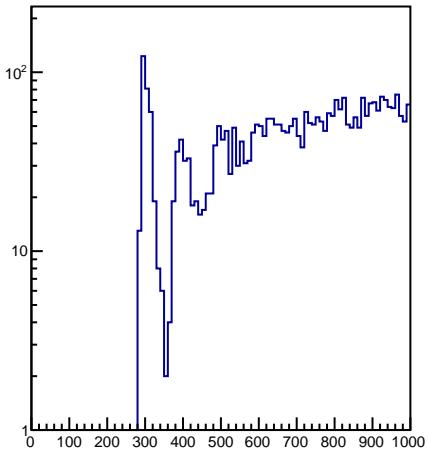
Cluster size (n_tps) - X



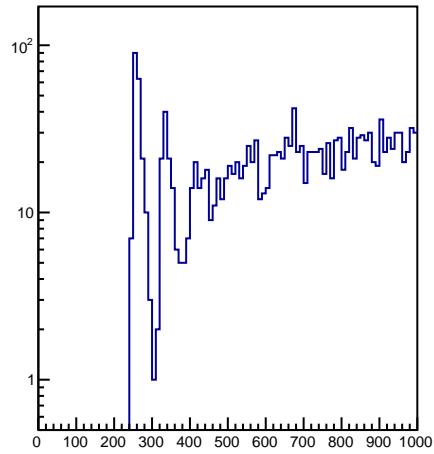
Total charge - U



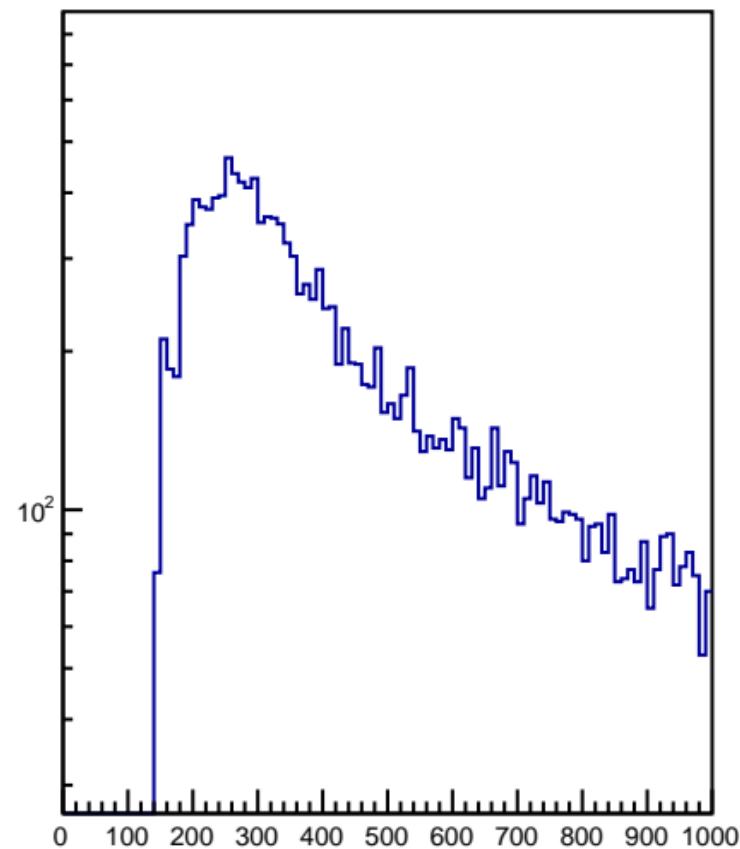
Total charge - V



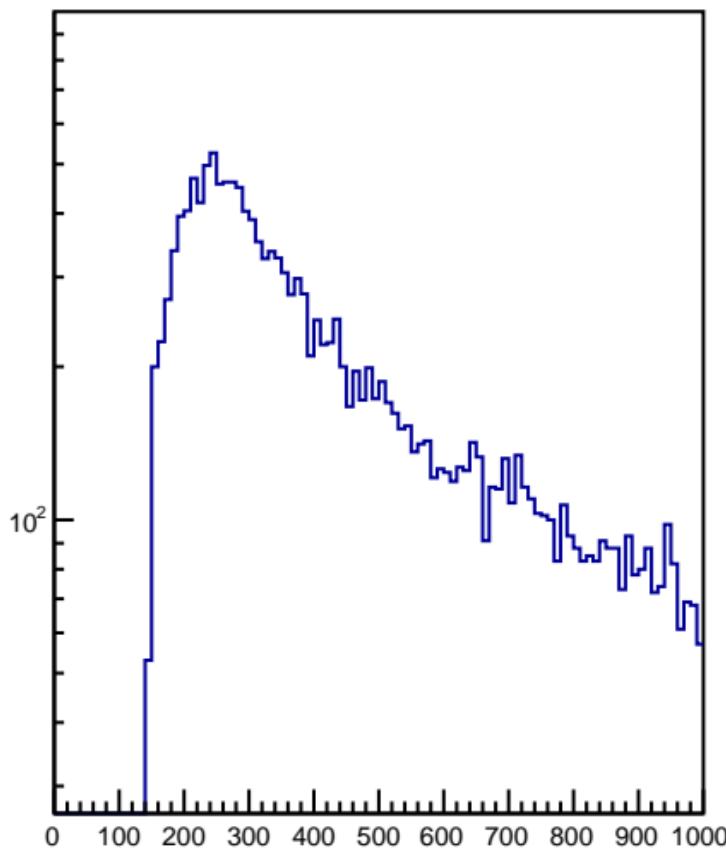
Total charge - X



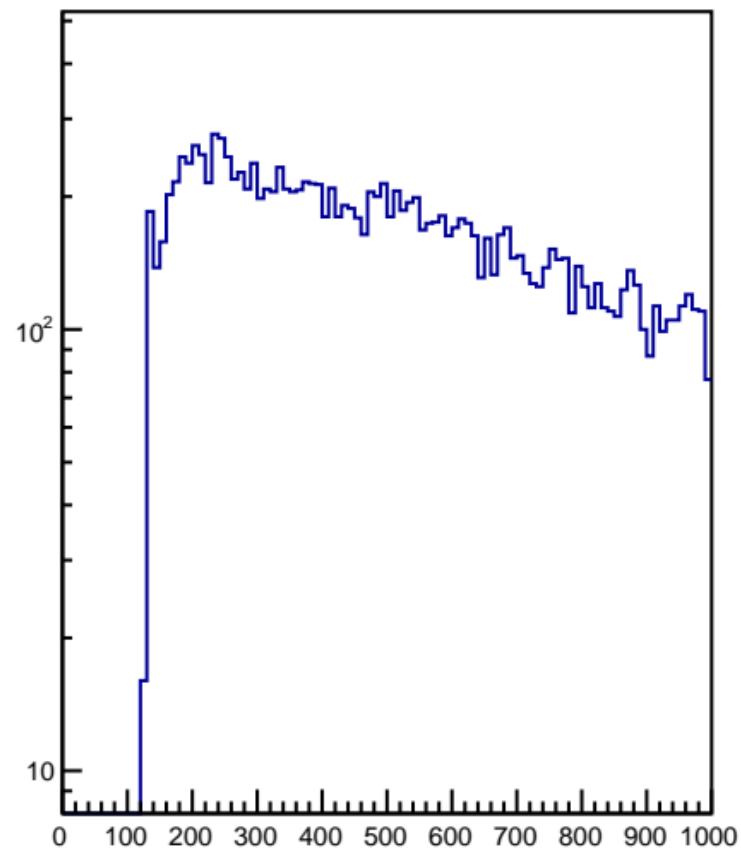
Total energy - U



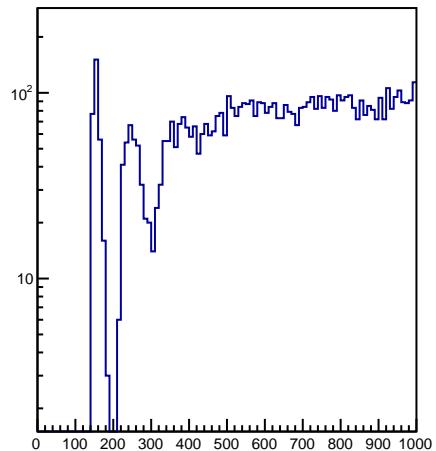
Total energy - V



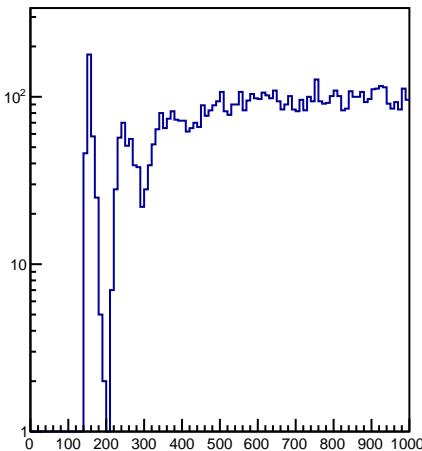
Total energy - X



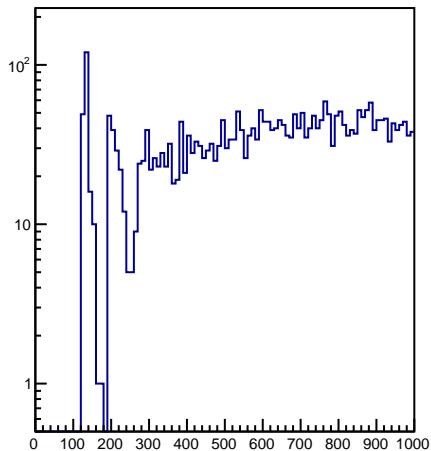
Max TP adc_integral - U



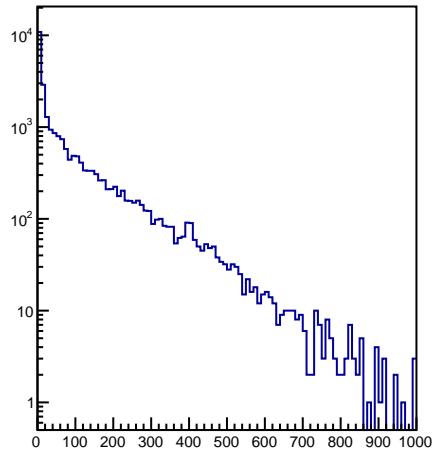
Max TP adc_integral - V



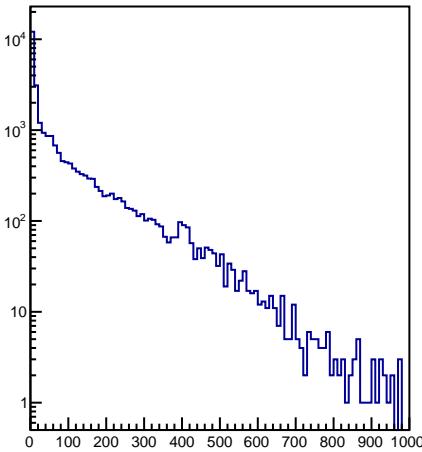
Max TP adc_integral - X



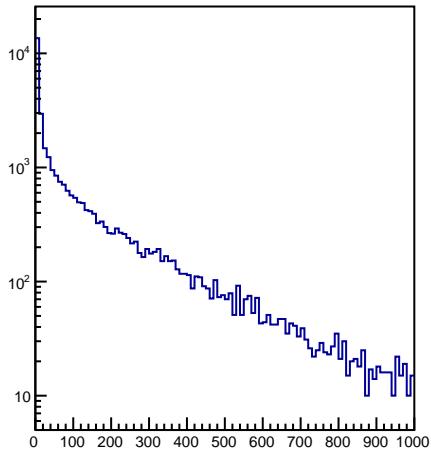
Total length (cm) - U



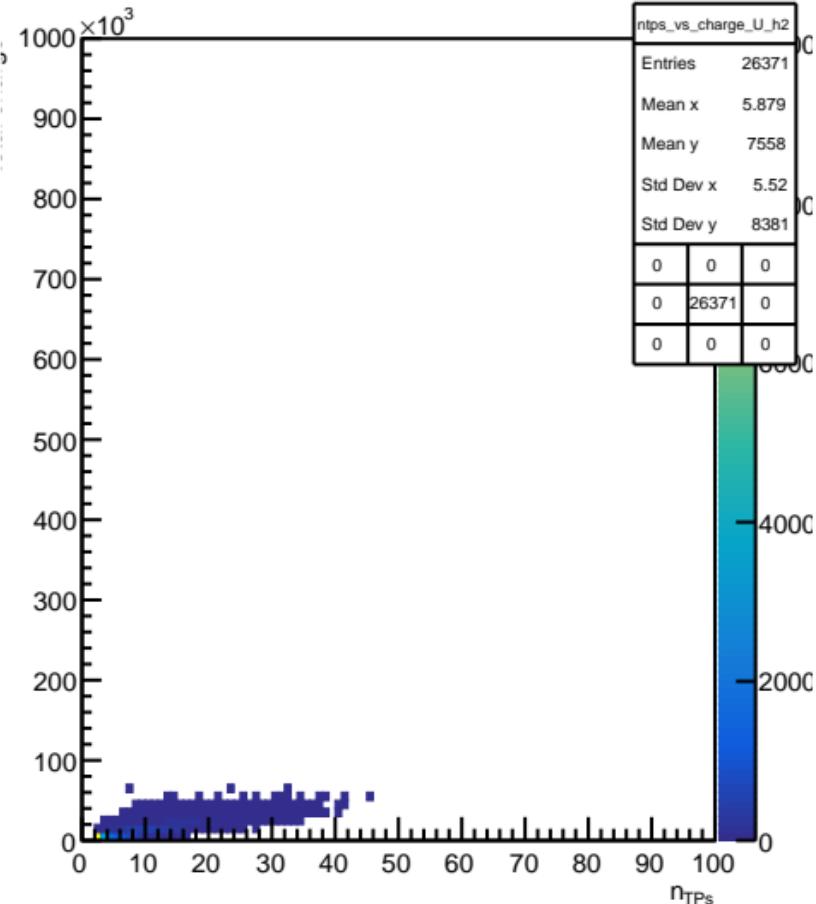
Total length (cm) - V



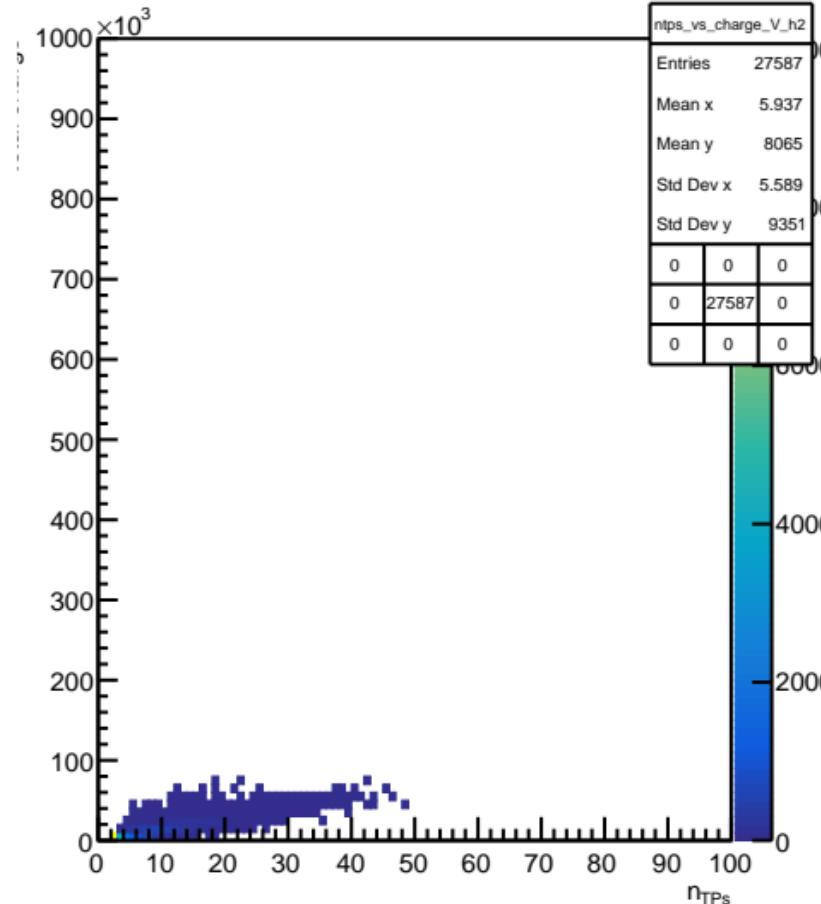
Total length (cm) - X



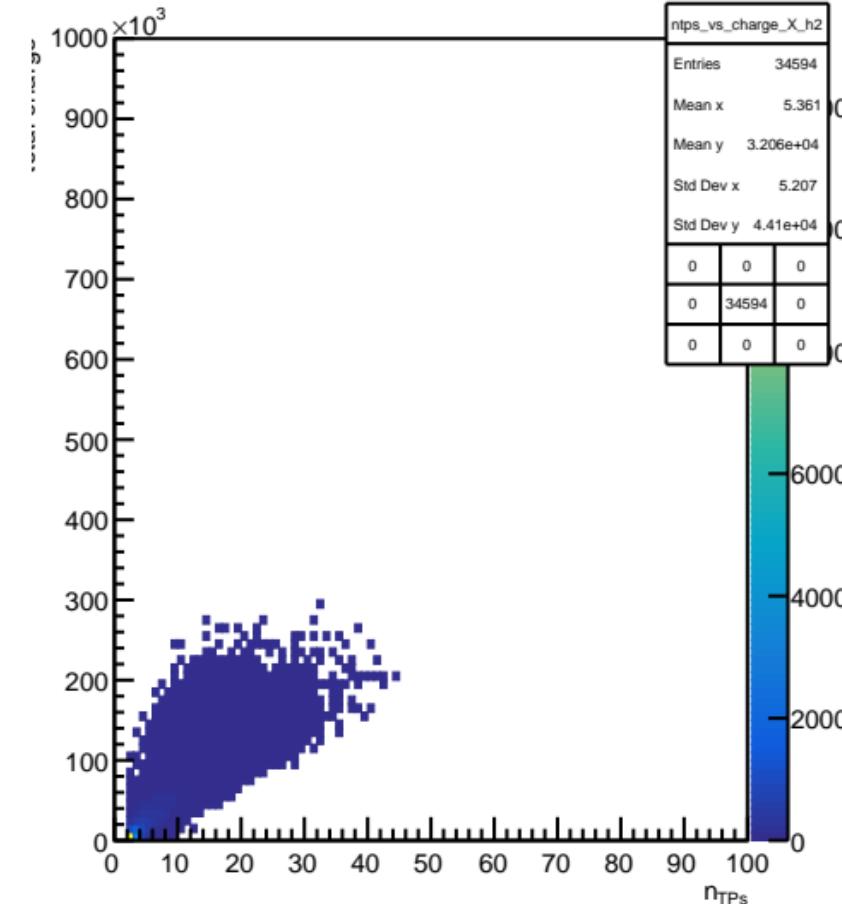
n_{TPS} vs total charge - U



n_{TPS} vs total charge - V



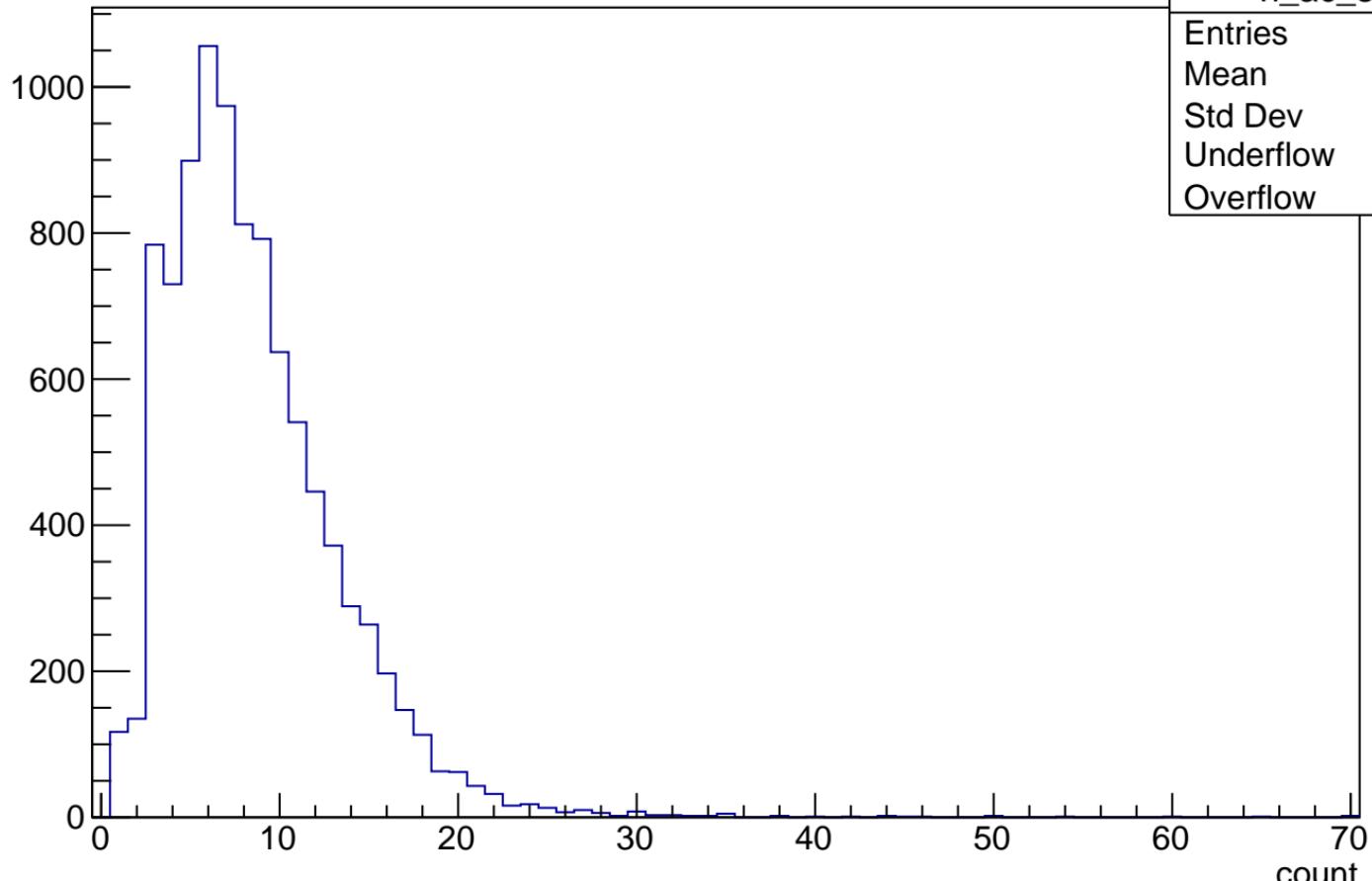
n_{TPS} vs total charge - X



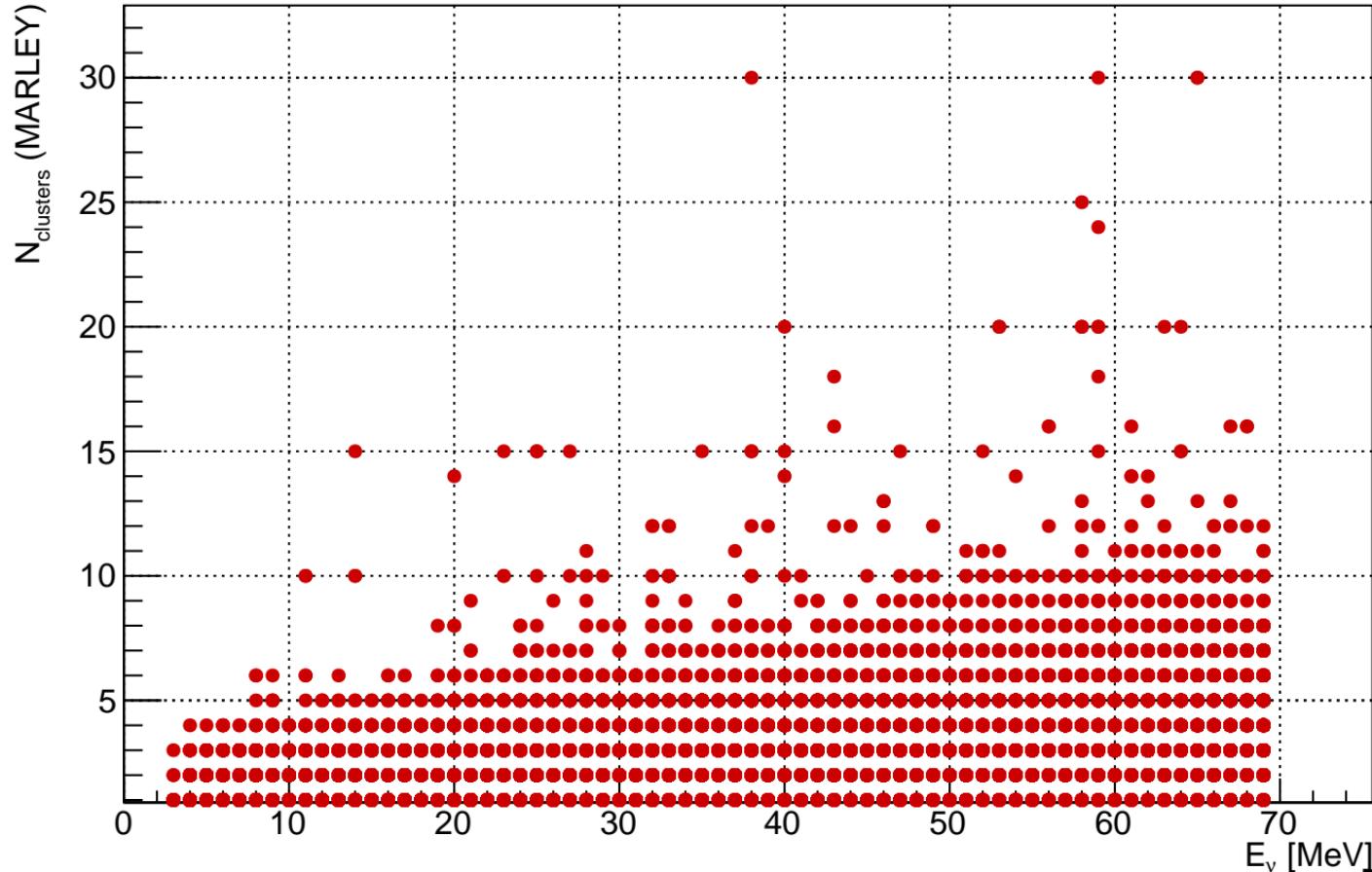
Supernova clusters per event

h_ac_sn	
Entries	9615
Mean	8.578
Std Dev	4.881
Underflow	0
Overflow	0

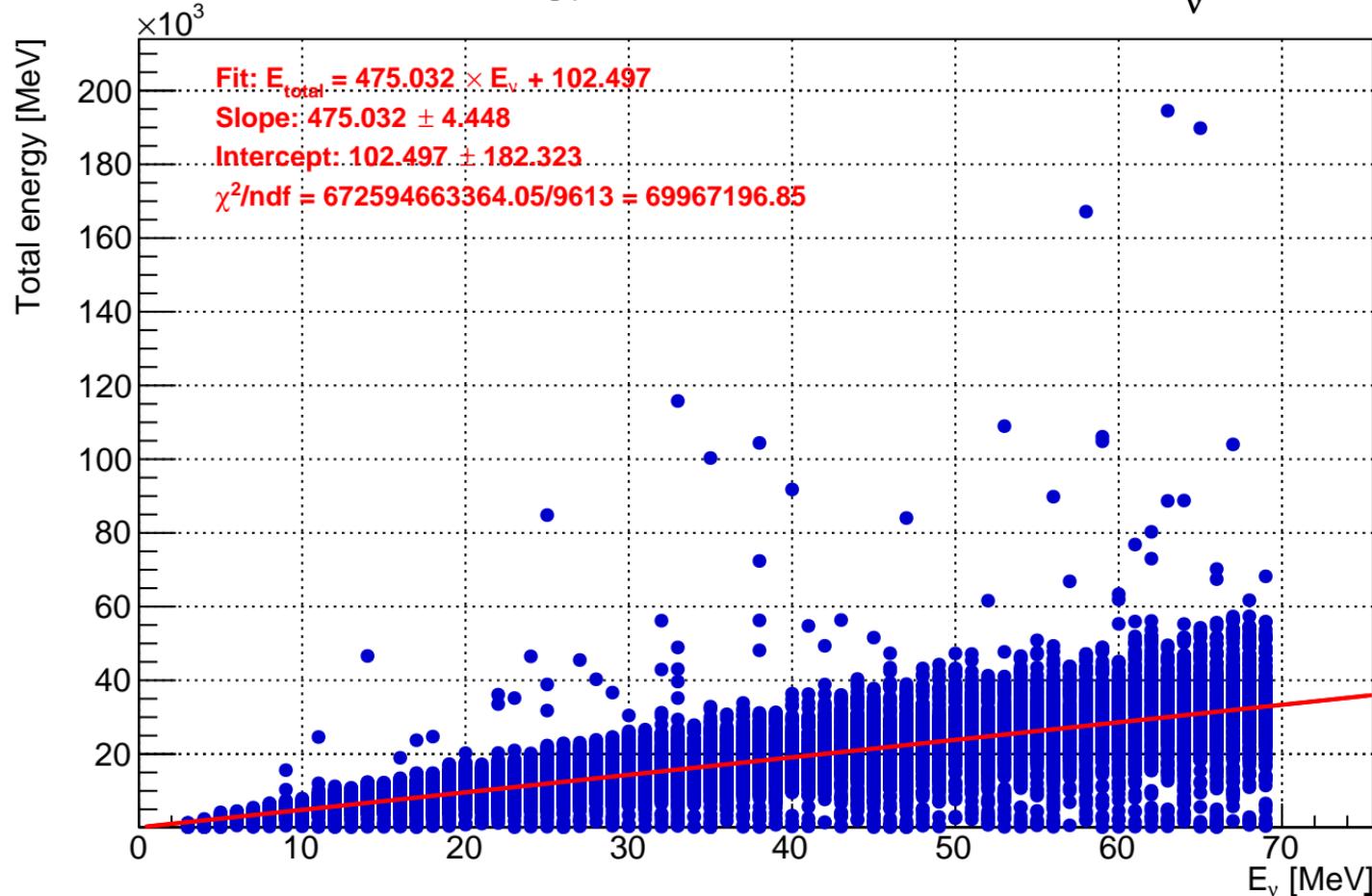
events



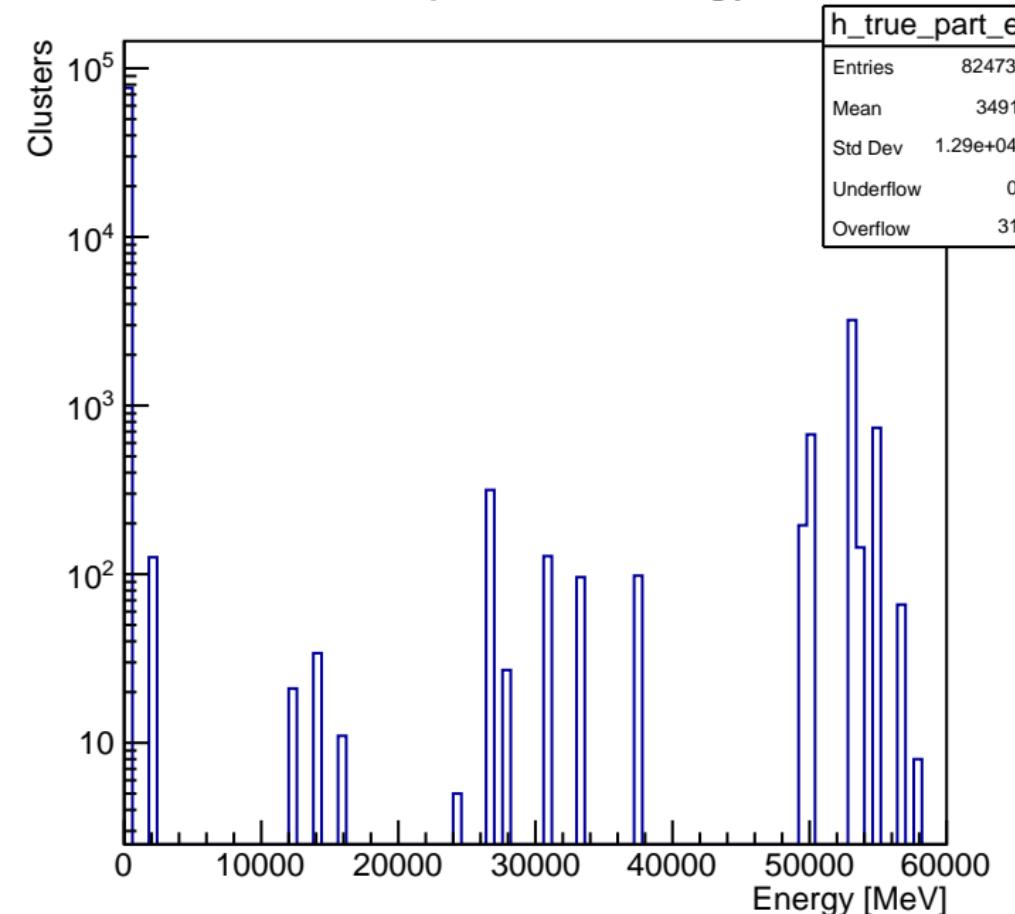
MARLEY clusters vs E_ν



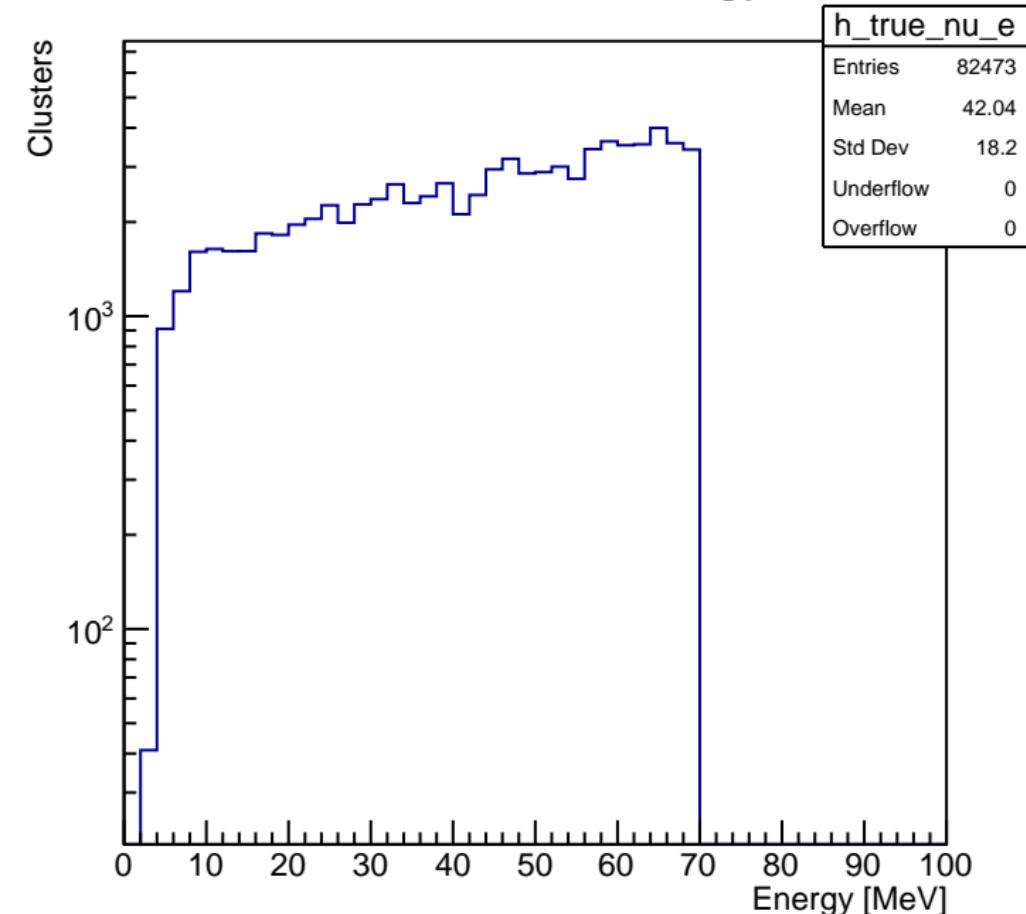
Total energy of MARLEY clusters vs E_ν



True particle energy

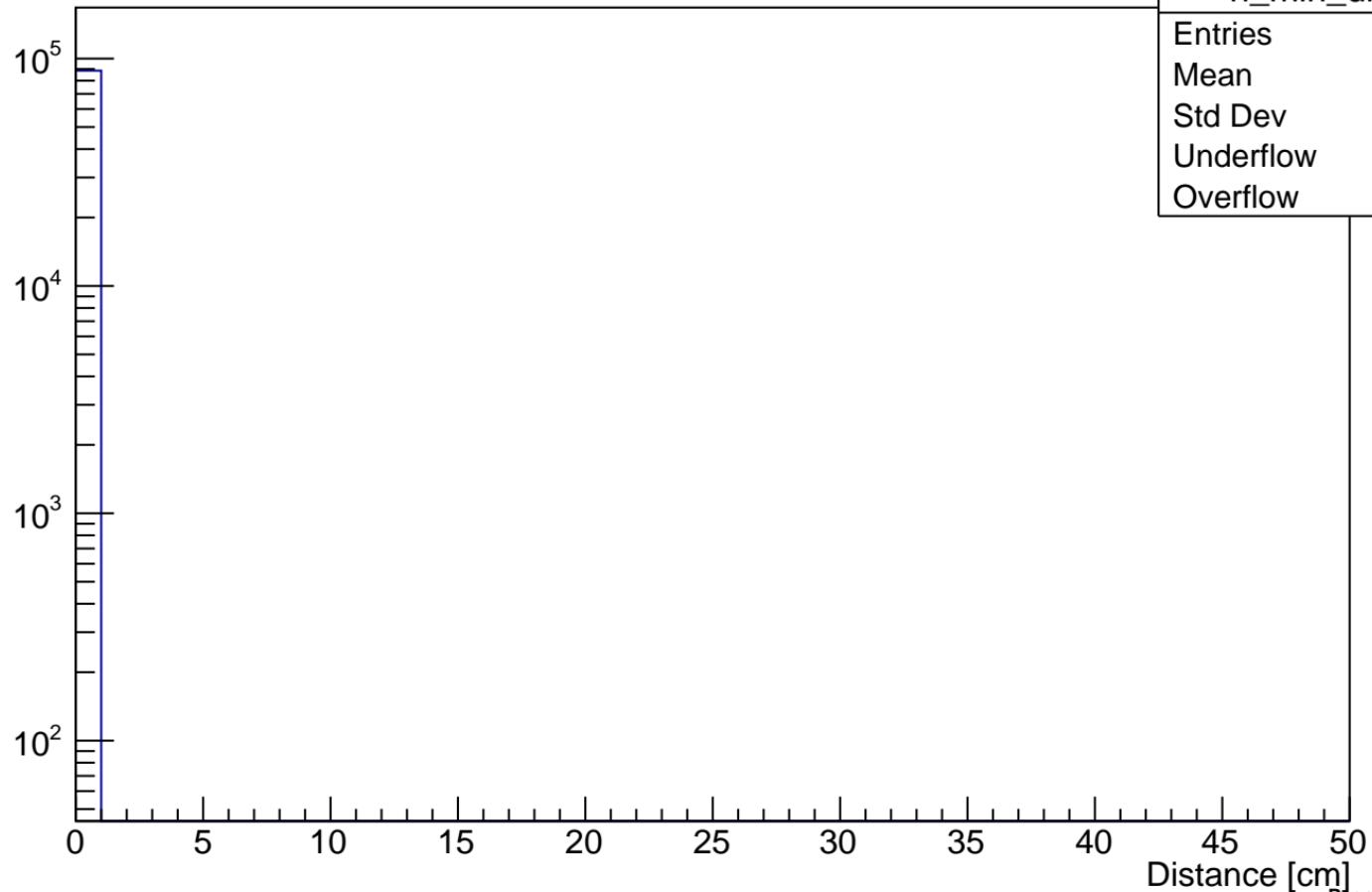


True neutrino energy

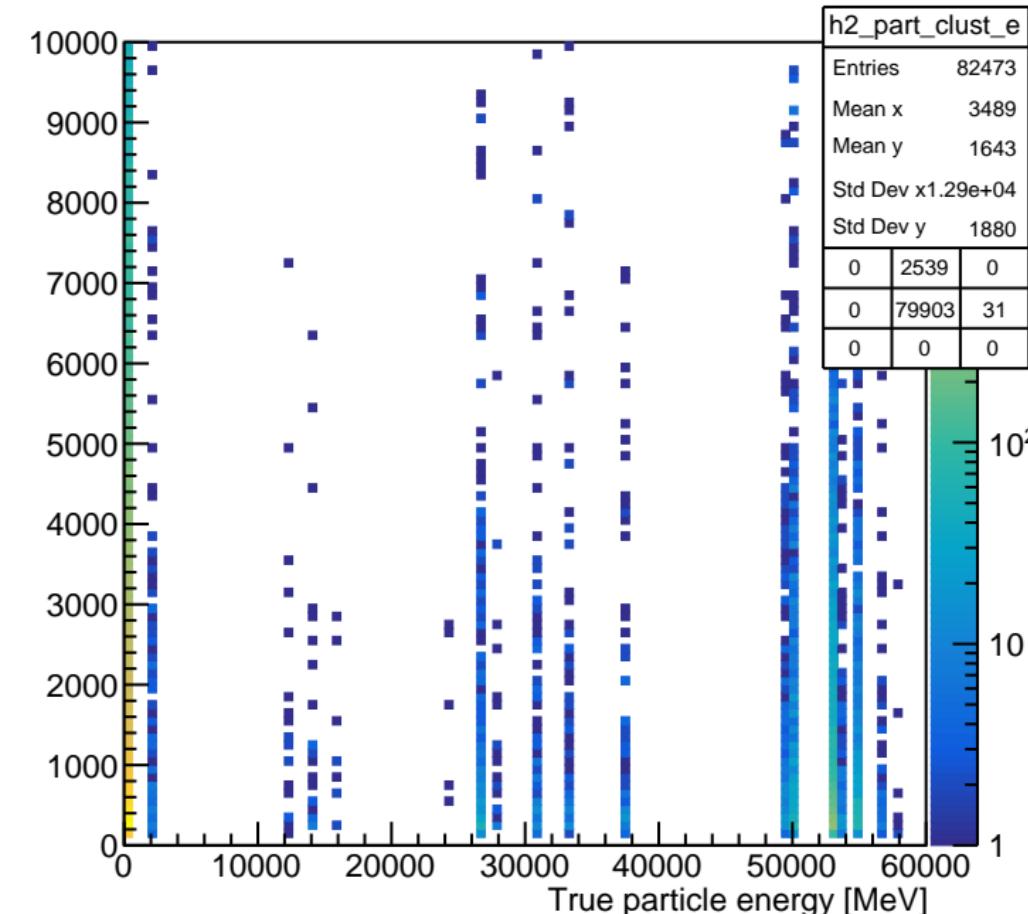


Min distance from true position

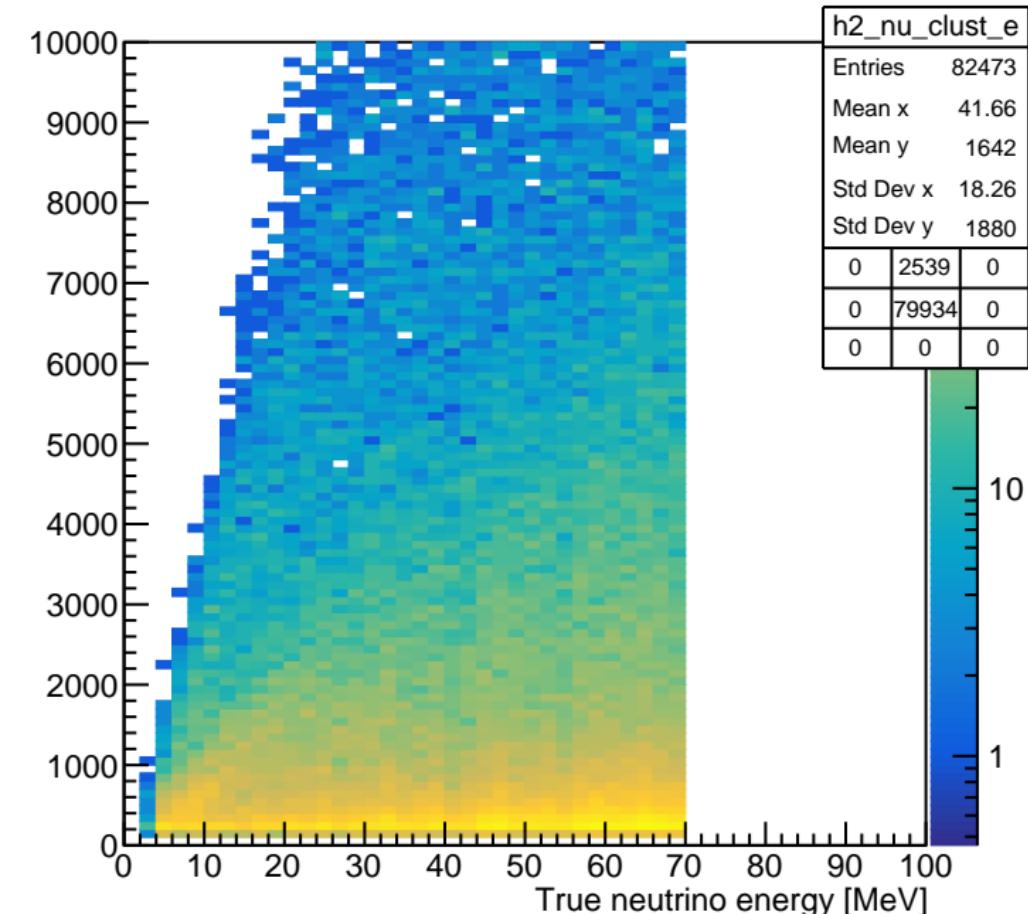
Clusters



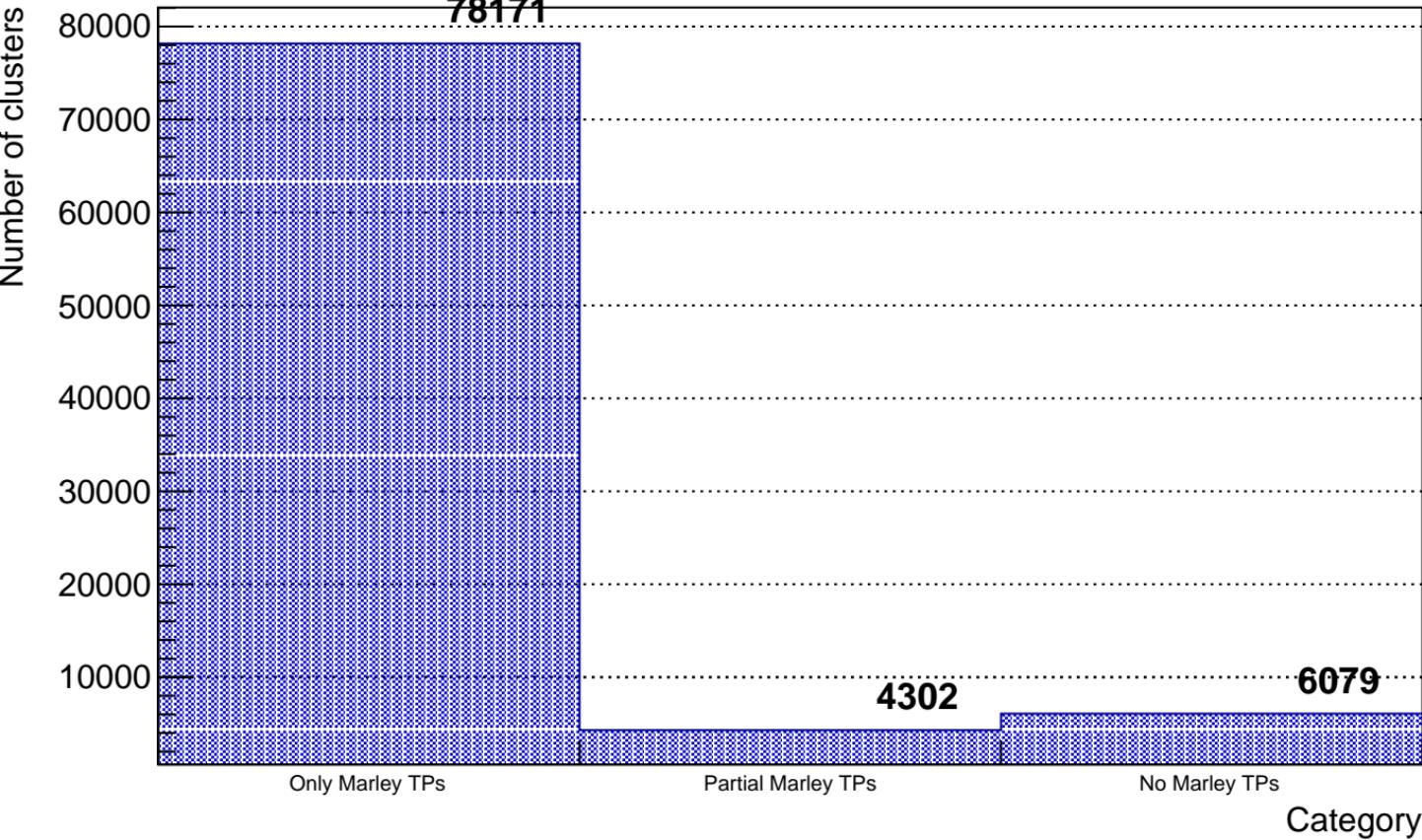
Particle energy vs cluster energy



Neutrino energy vs cluster energy



Clusters by Marley TP content



Total ADC Integral by Cluster Family

