

Cluster Analysis Report

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

File: es_valid_tick5_ch2_min2_tot1_clusters.root

Clustering Parameters:

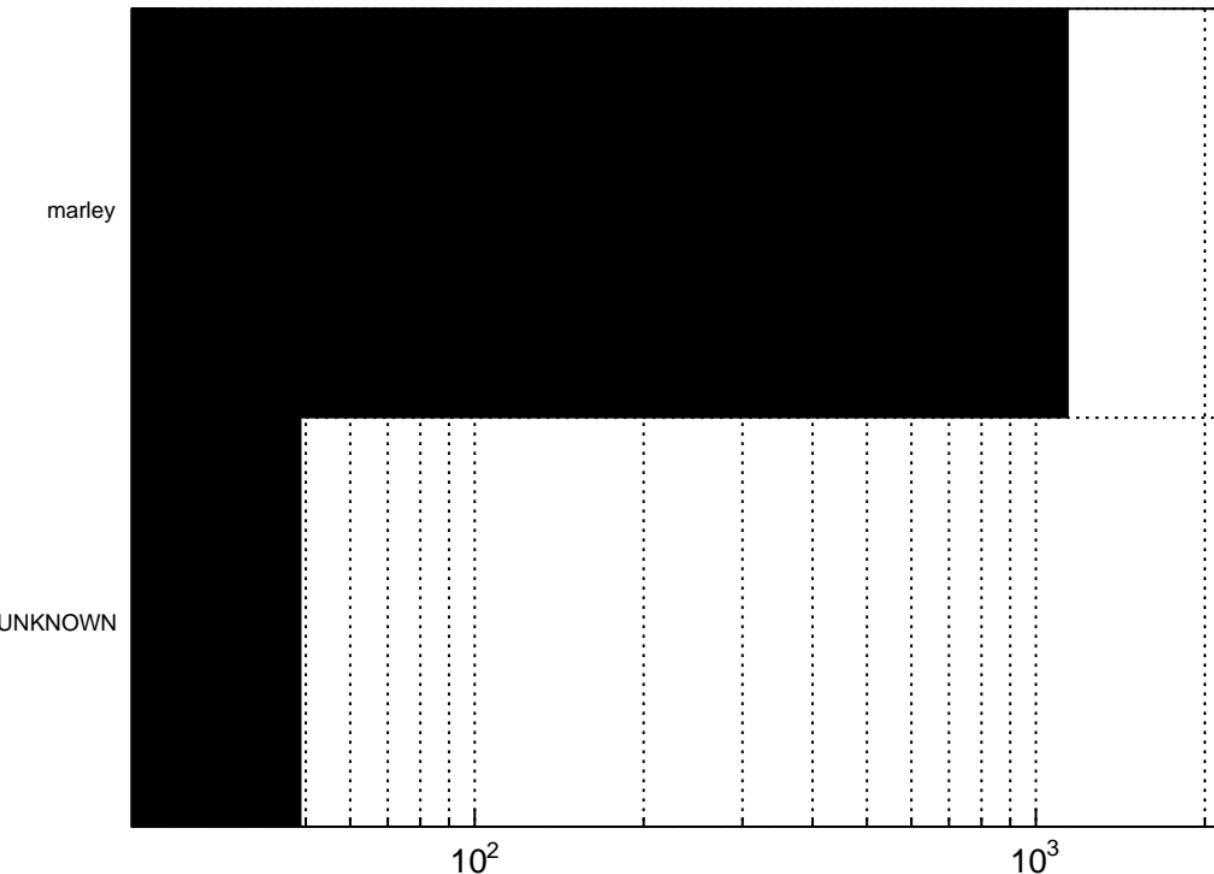
Time tolerance: 5 ticks

Channel tolerance: 2

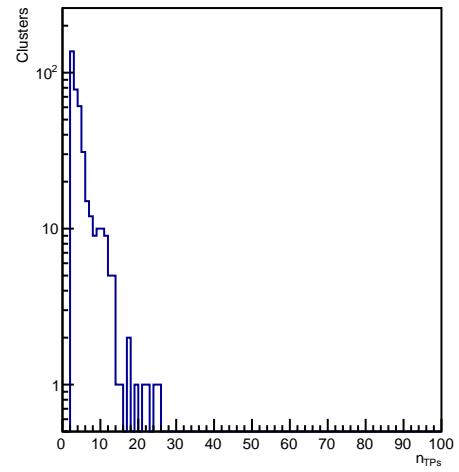
Min cluster size: 2 TPs

Min total charge threshold: 1

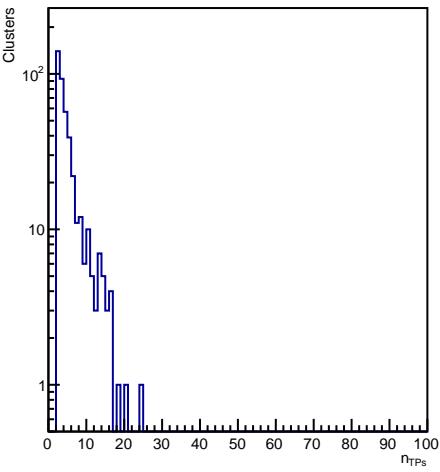
Clusters by true label



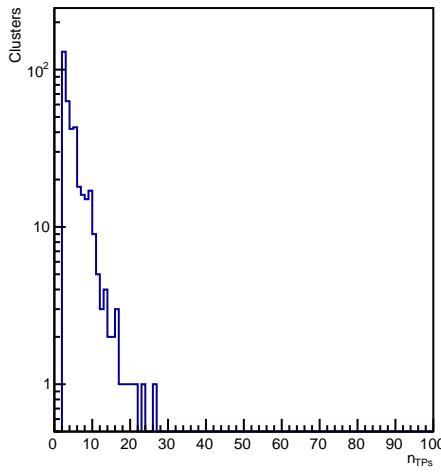
Cluster size (n_tps) - U



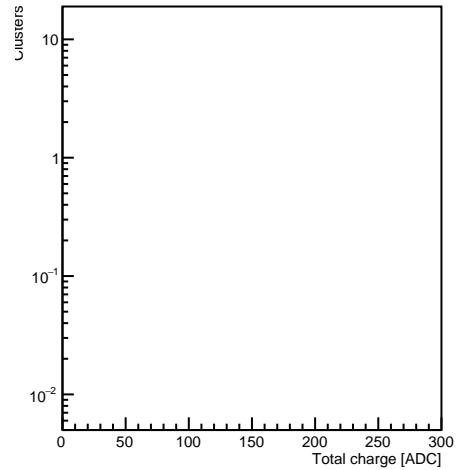
Cluster size (n_tps) - V



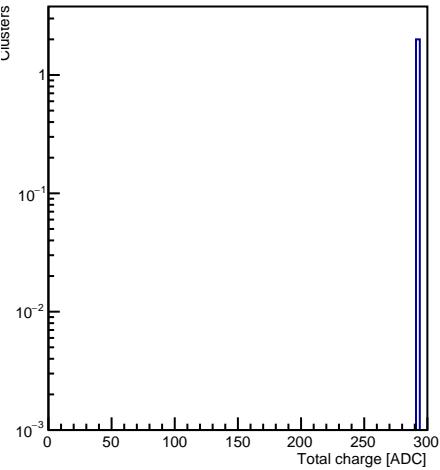
Cluster size (n_tps) - X



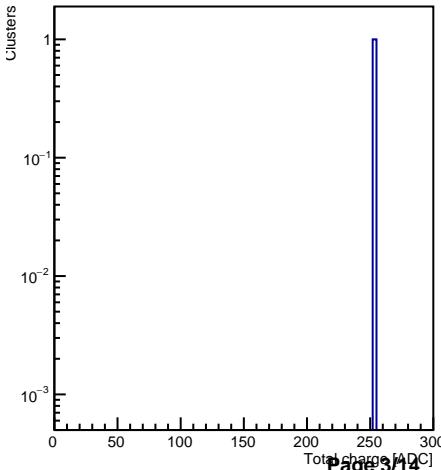
Total charge - U



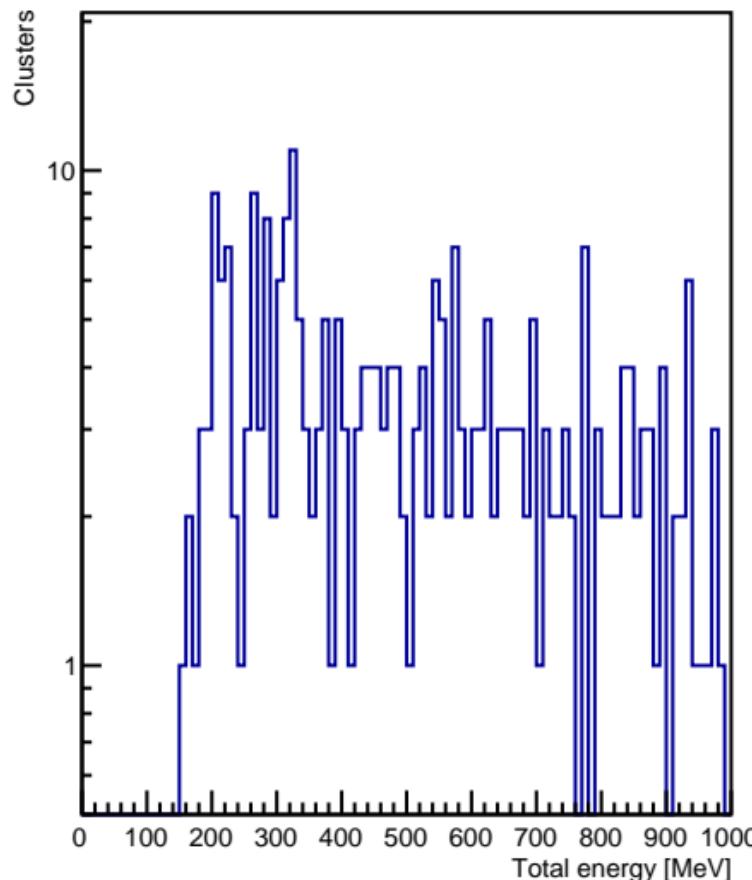
Total charge - V



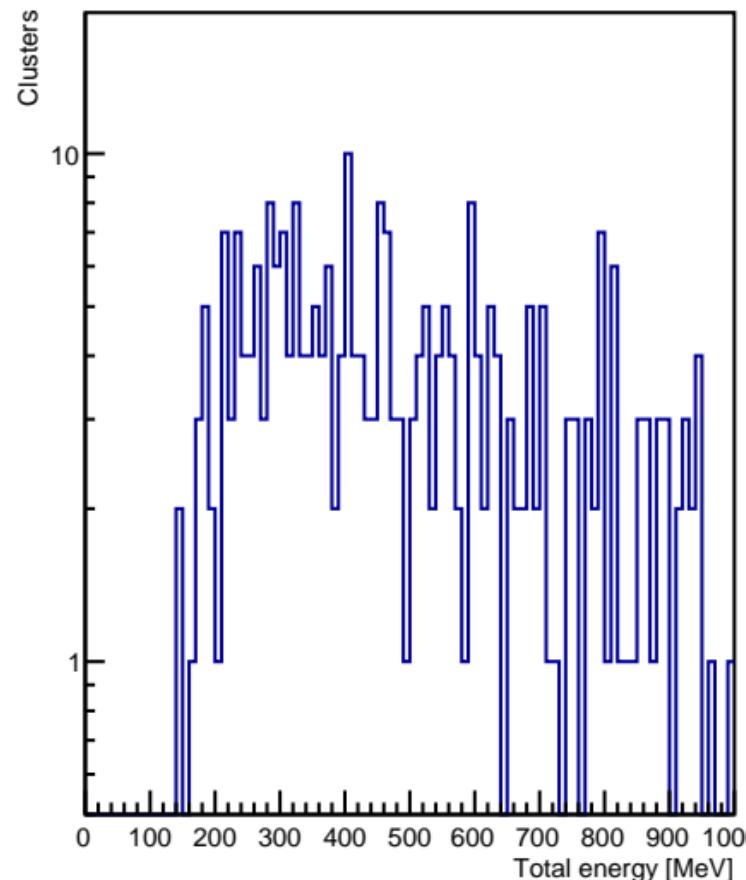
Total charge - X



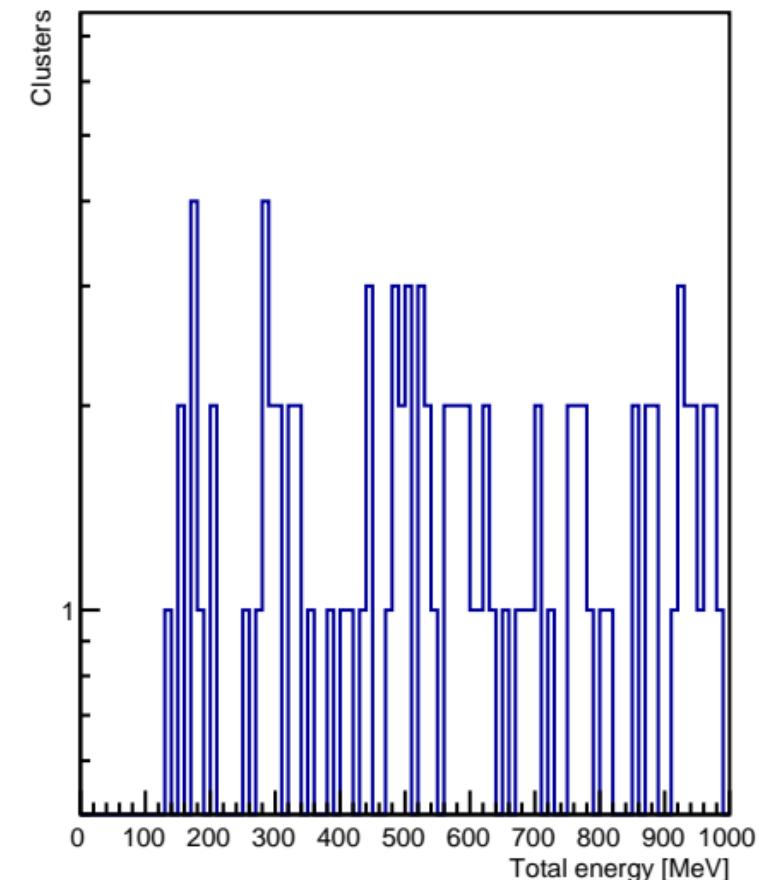
Total energy - U



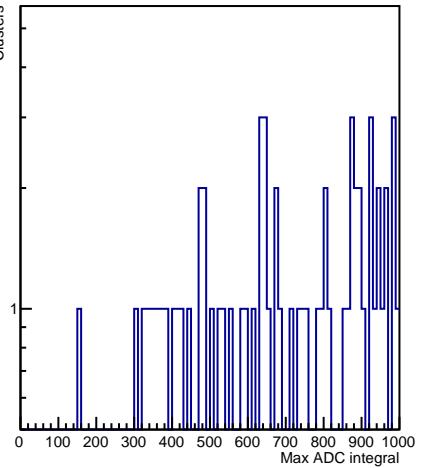
Total energy - V



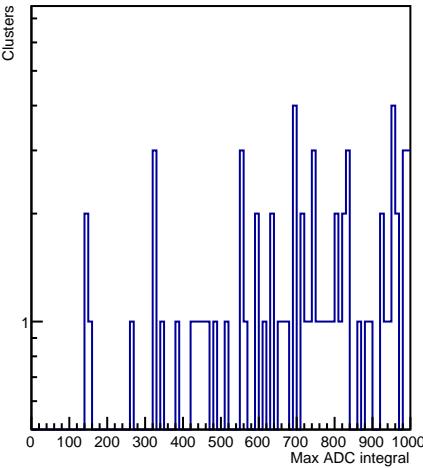
Total energy - X



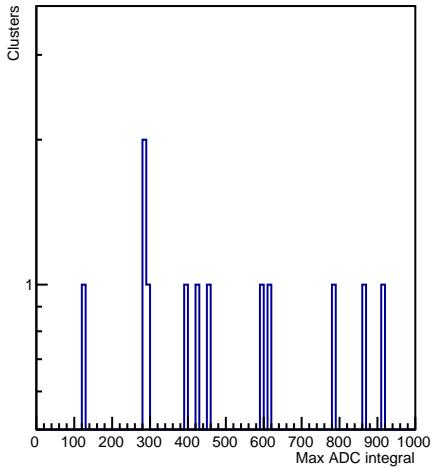
Max TP adc_integral - U



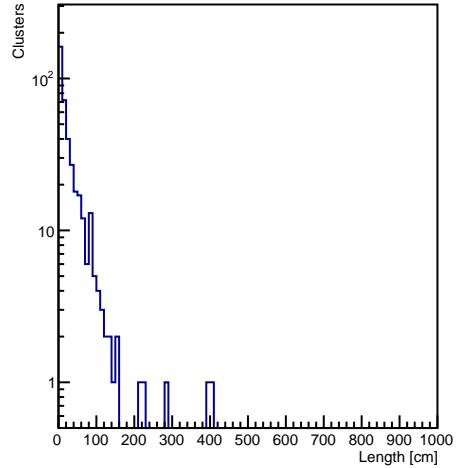
Max TP adc_integral - V



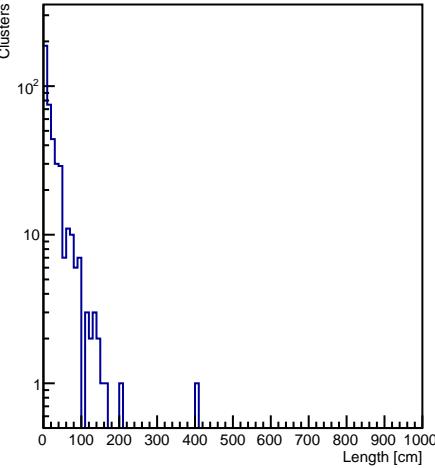
Max TP adc_integral - X



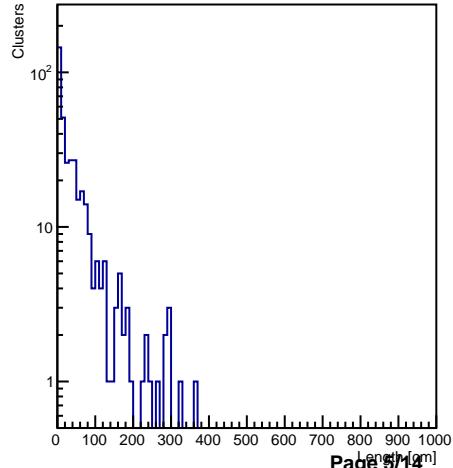
Total length (cm) - U



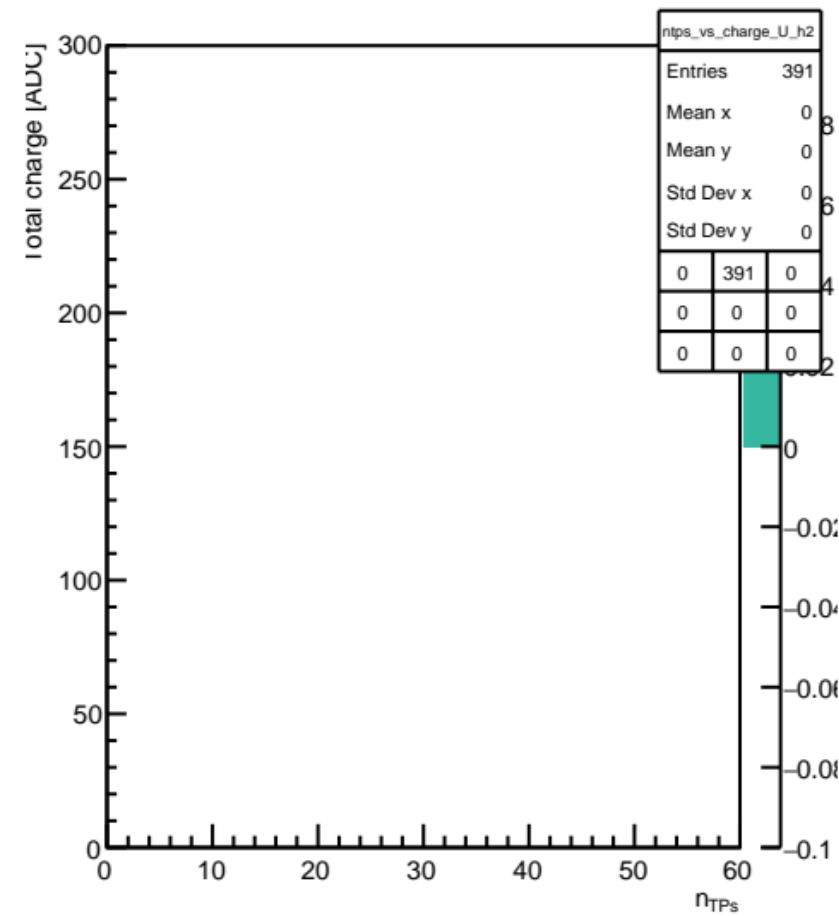
Total length (cm) - V



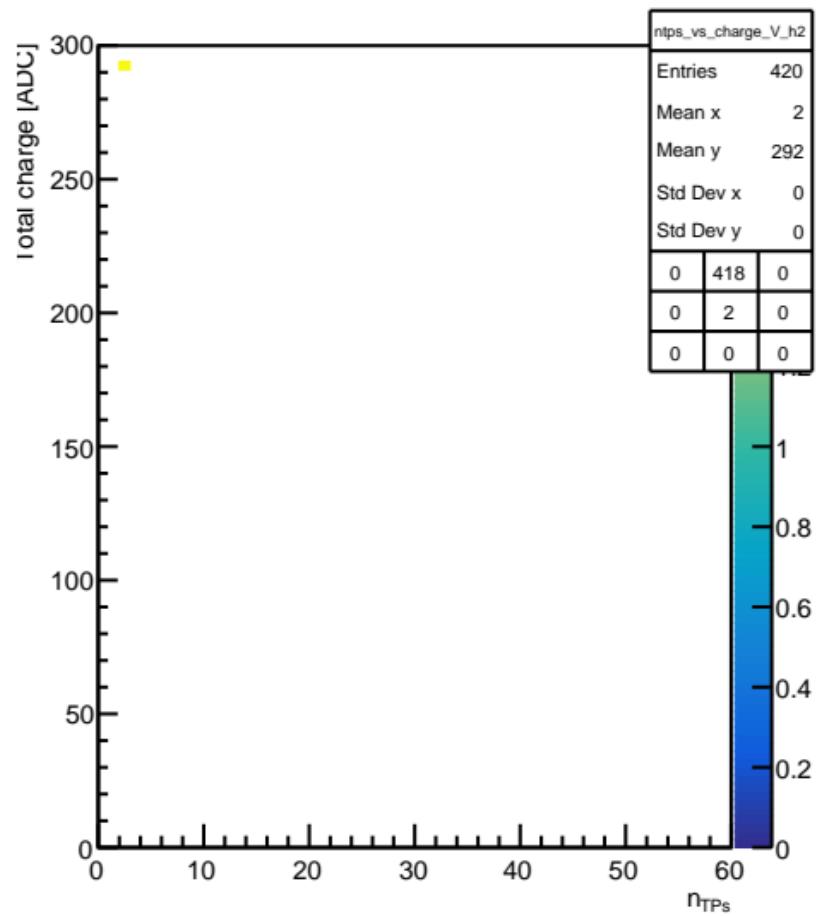
Total length (cm) - X



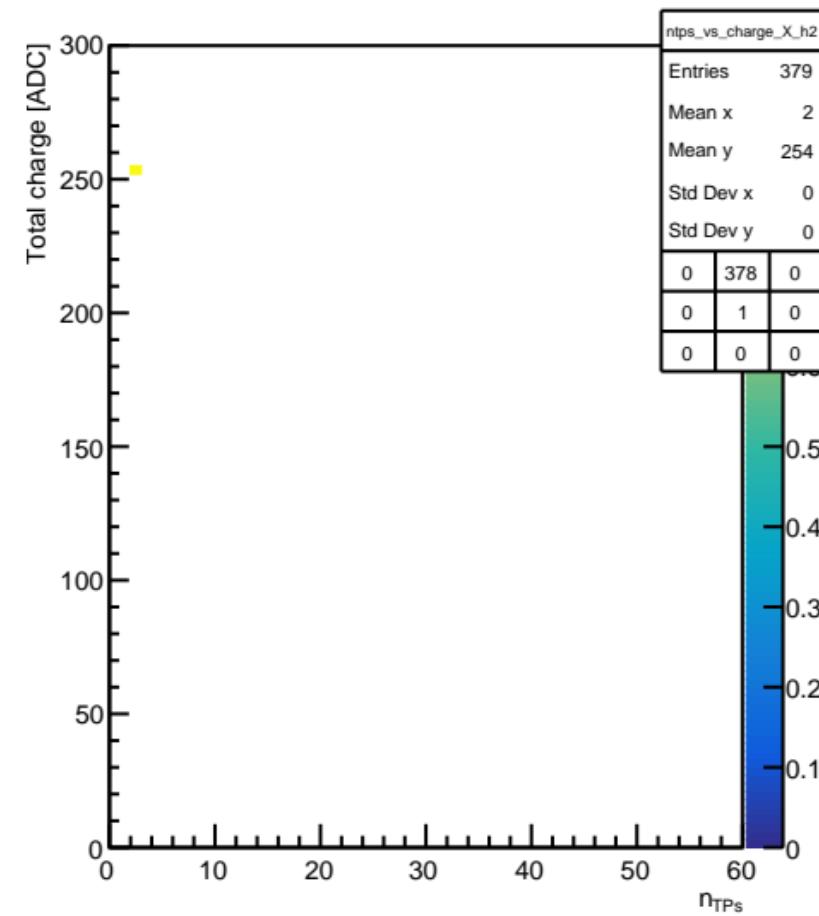
n_{TPs} vs total charge - U



n_{TPs} vs total charge - V

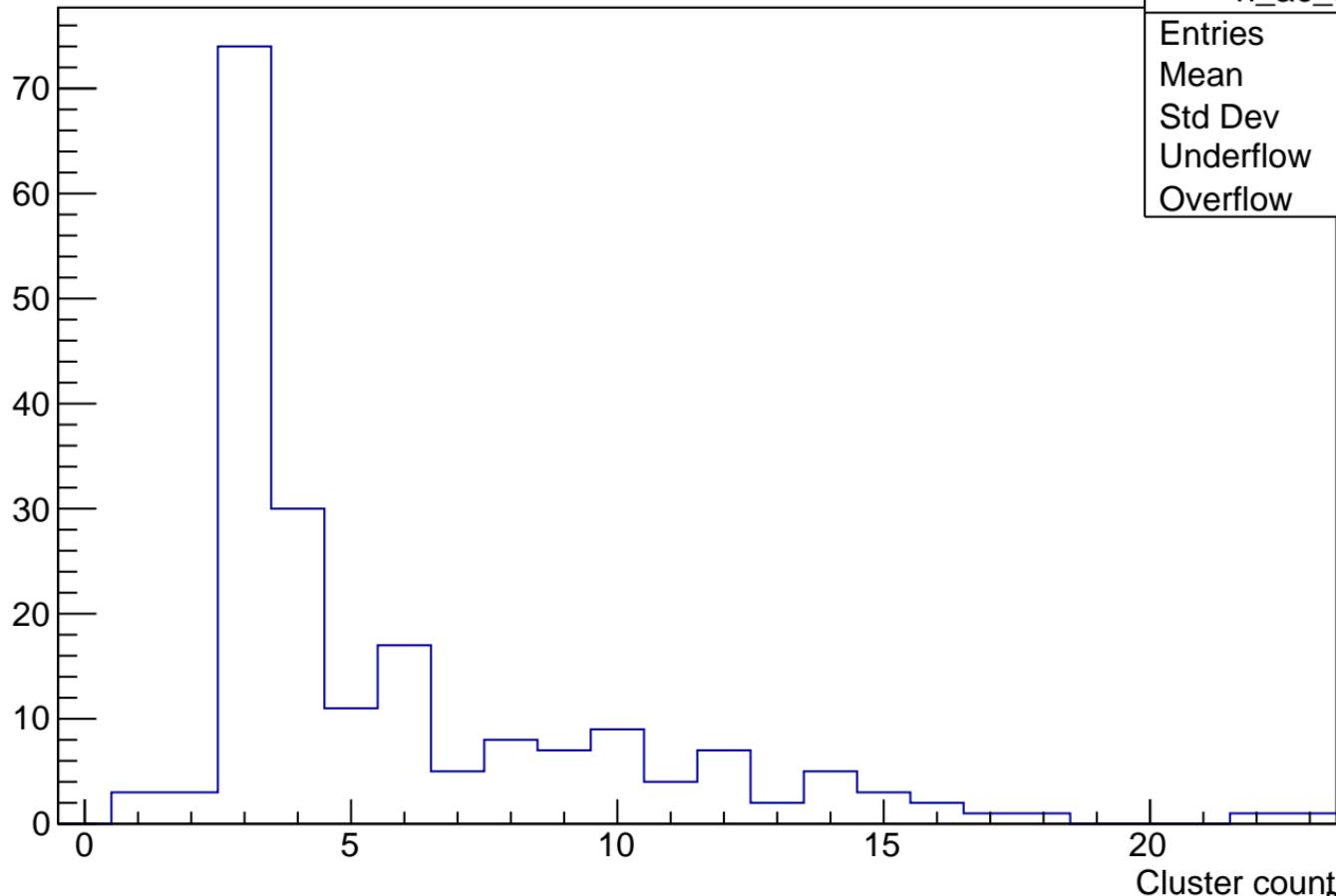


n_{TPs} vs total charge - X



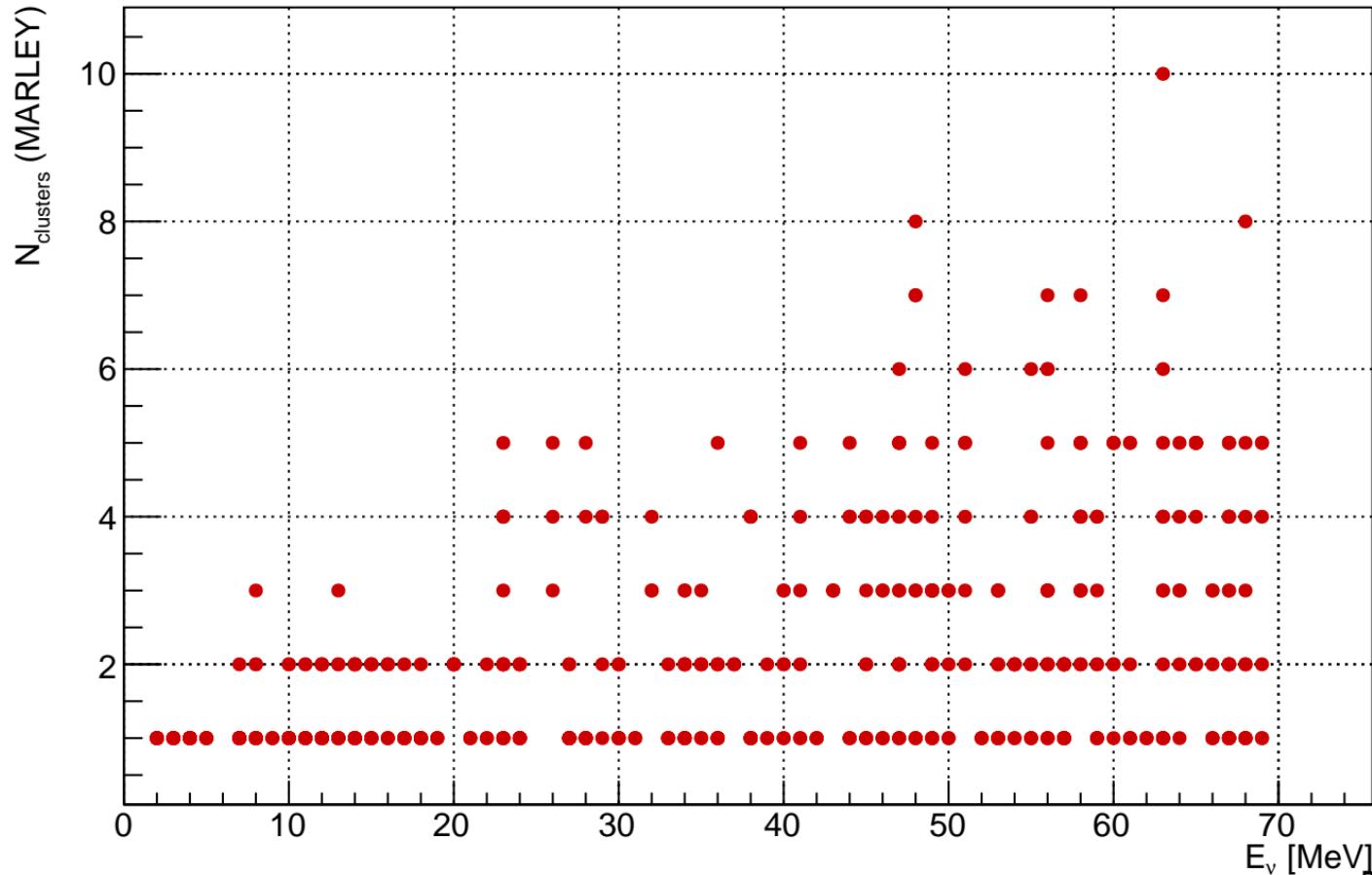
Supernova clusters per event

Events

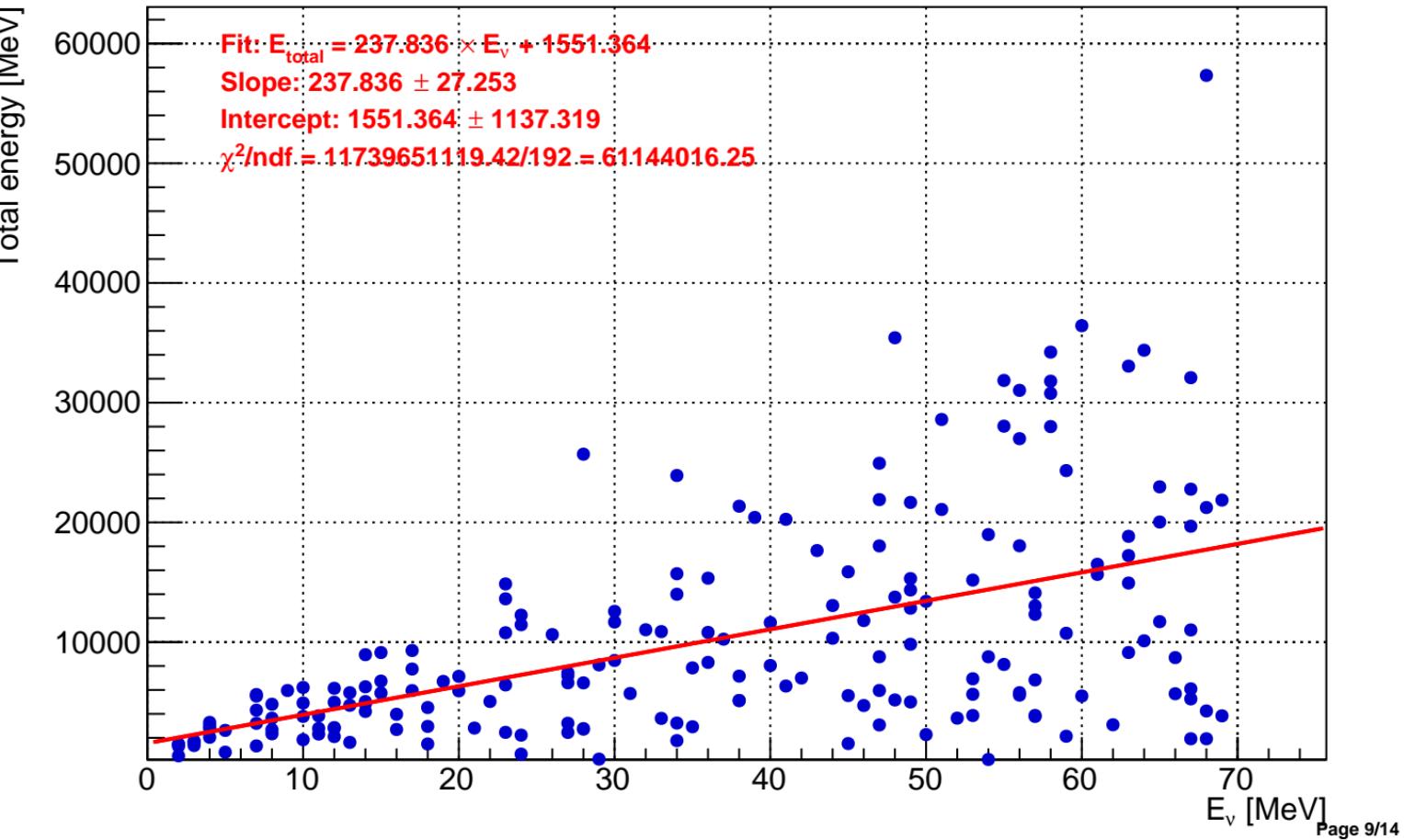


h_ac_sn	
Entries	194
Mean	5.881
Std Dev	4.051
Underflow	0
Overflow	0

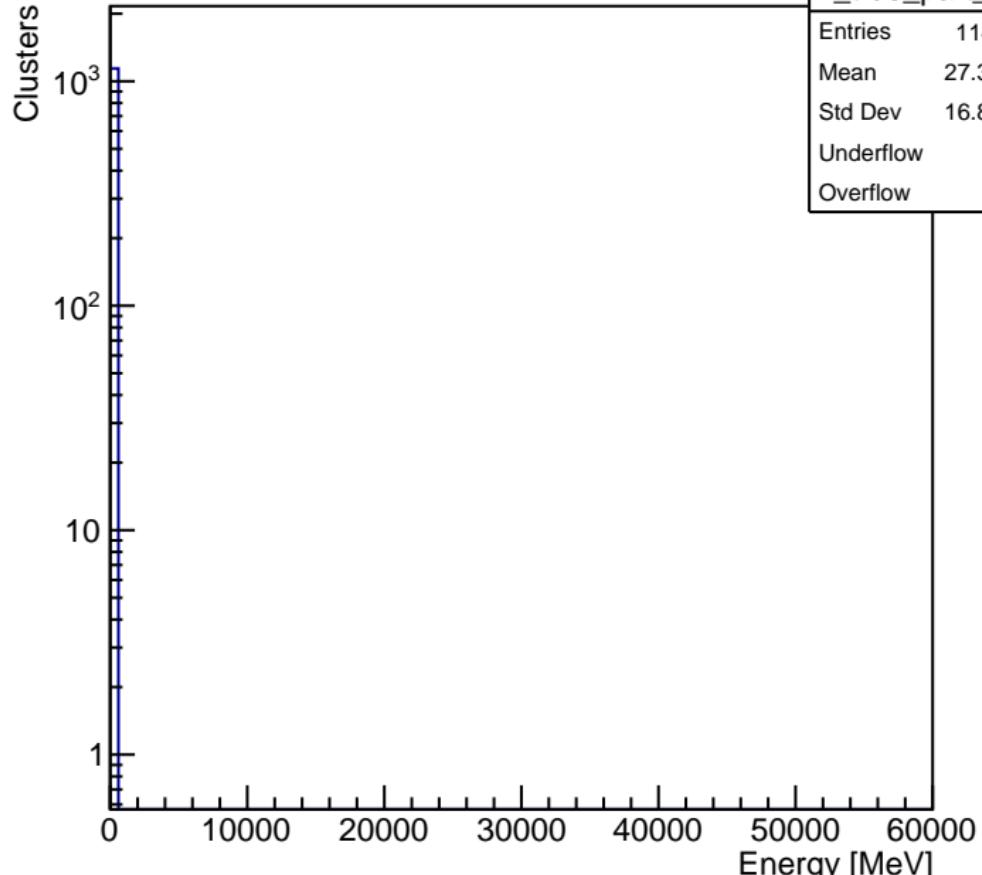
MARLEY clusters vs E_ν



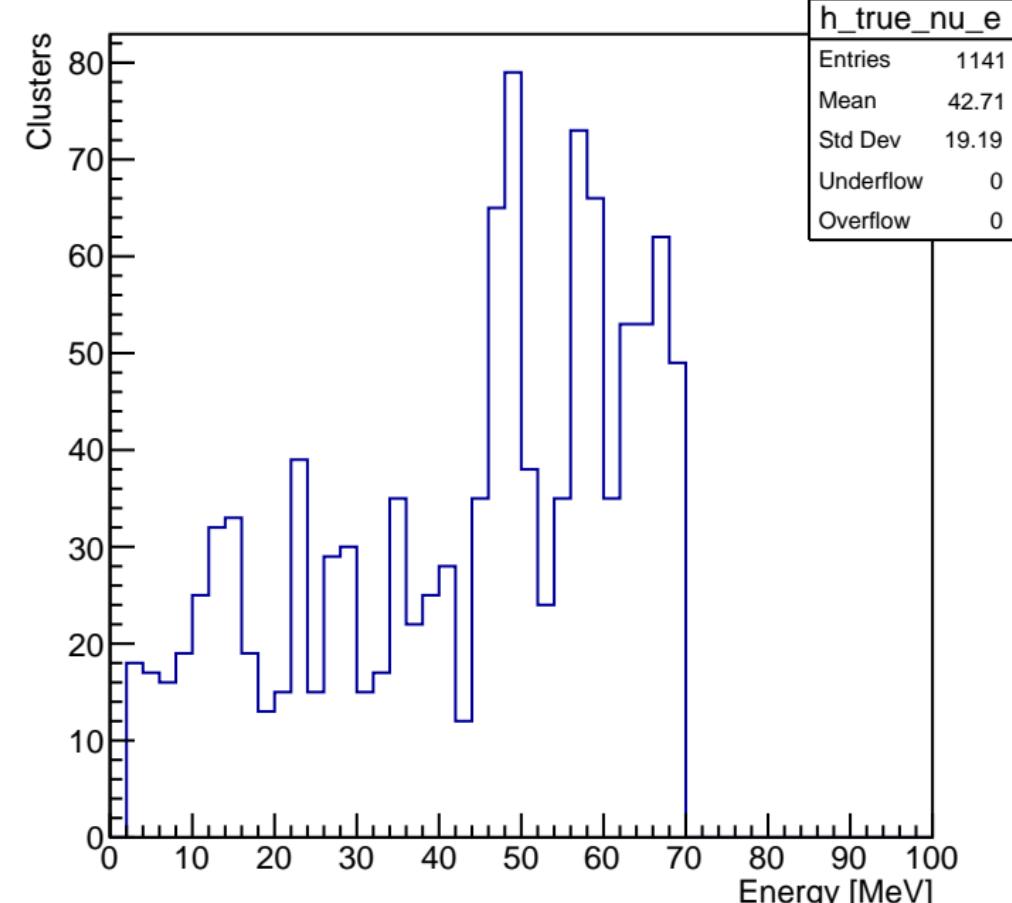
Total energy of MARLEY clusters vs E_ν



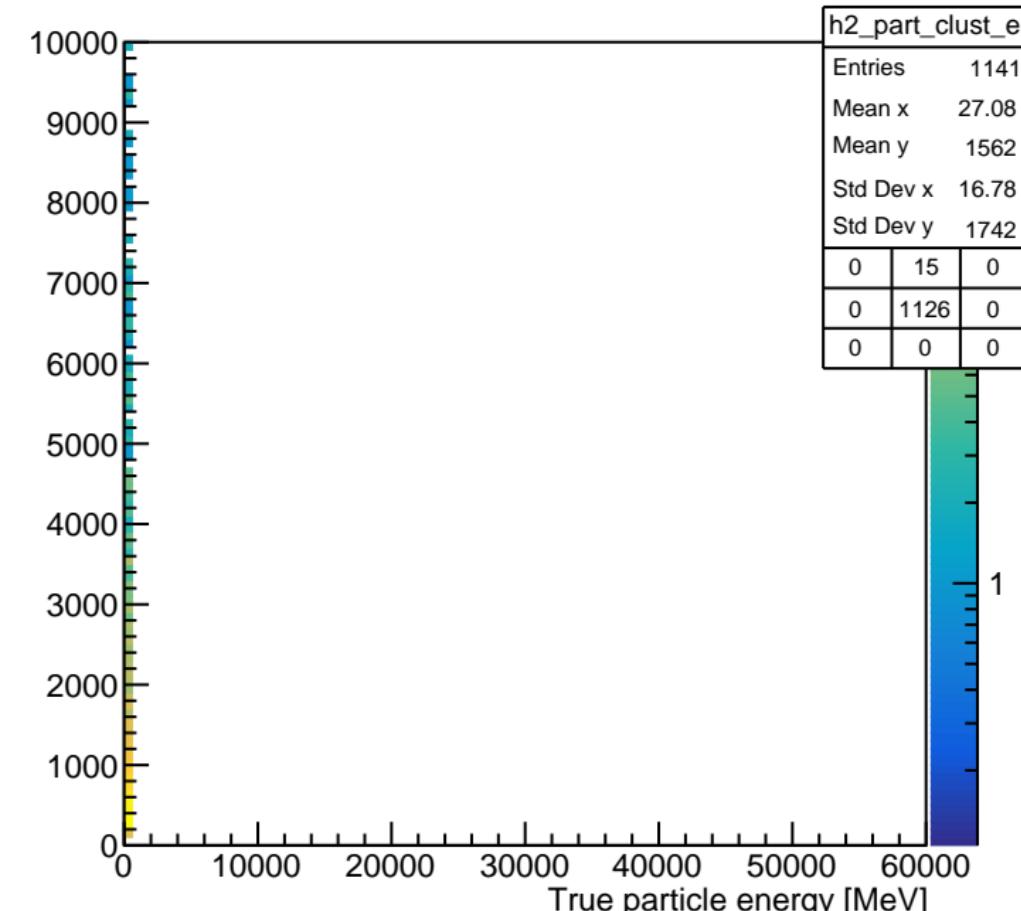
True particle energy



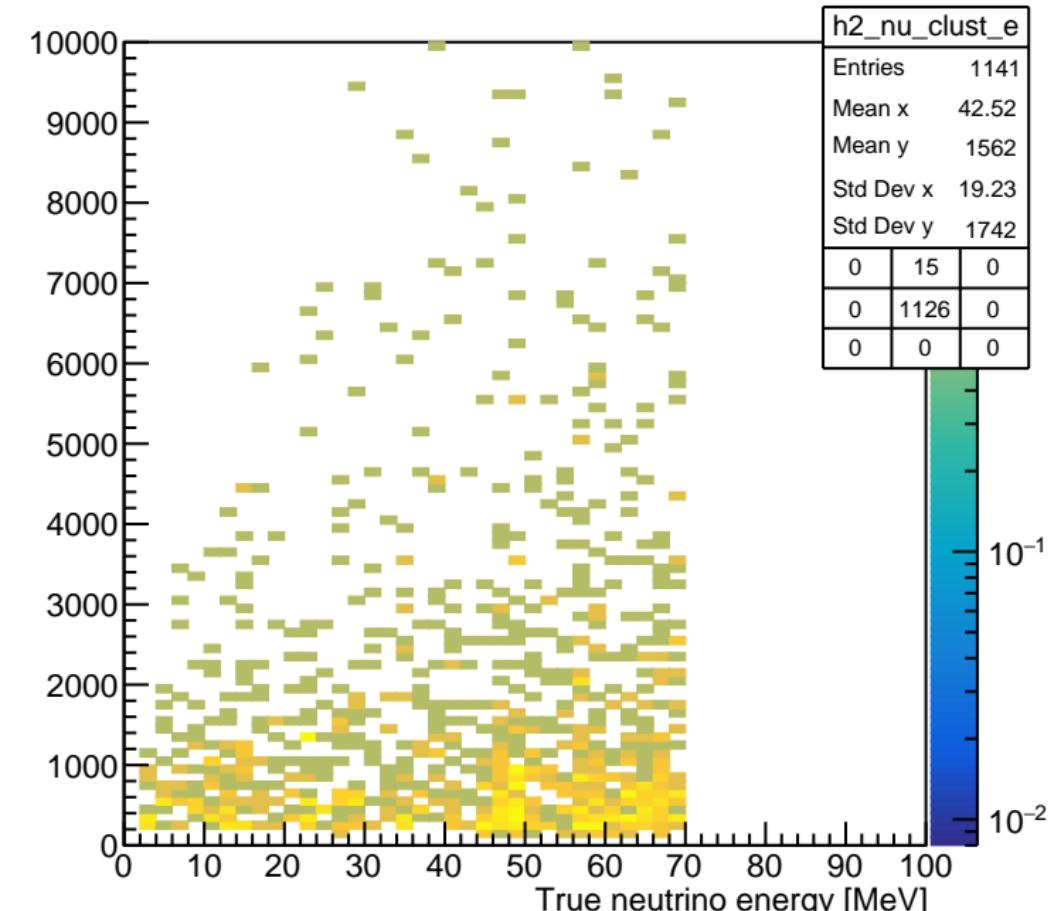
True neutrino energy



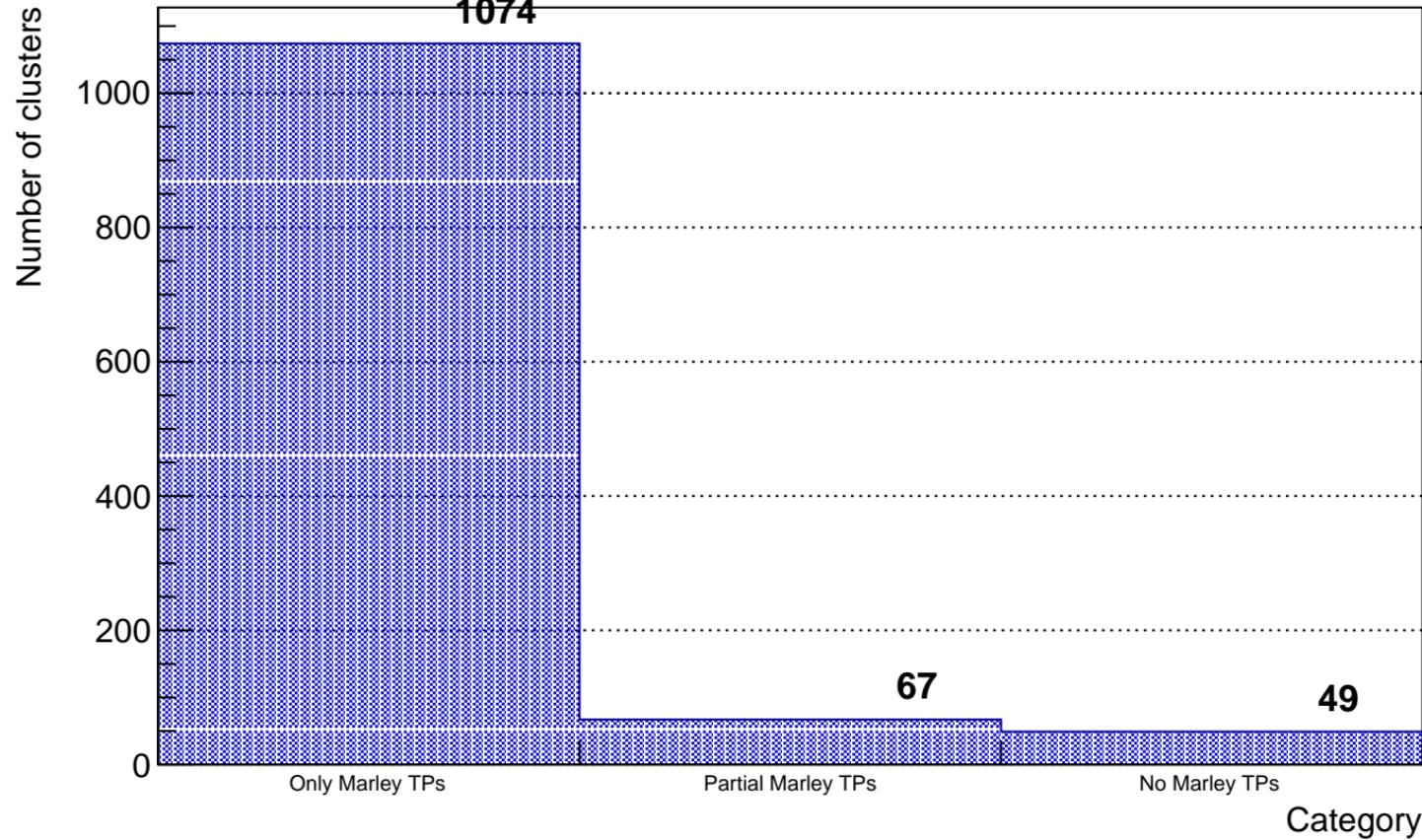
Particle energy vs cluster energy



Neutrino energy vs cluster energy



Clusters by Marley TP content



Total ADC Integral by Cluster Family

