

**Mode 4 :**

**Efficiency : -nan ( 0 / 0 )**

**\*Area selection : center of the NINJA detector 30cm square .**

**\*Sand muon selection : track\_type == 1 .**

**\*Number of hit selection :  $2 \leq \text{NoH} \leq 4$  for both side .**

**\*Number of cluster selection :  $\text{NoC} \leq 5$  .**

**\*Momentum selection : Muon momentum  $\geq 500$  .**

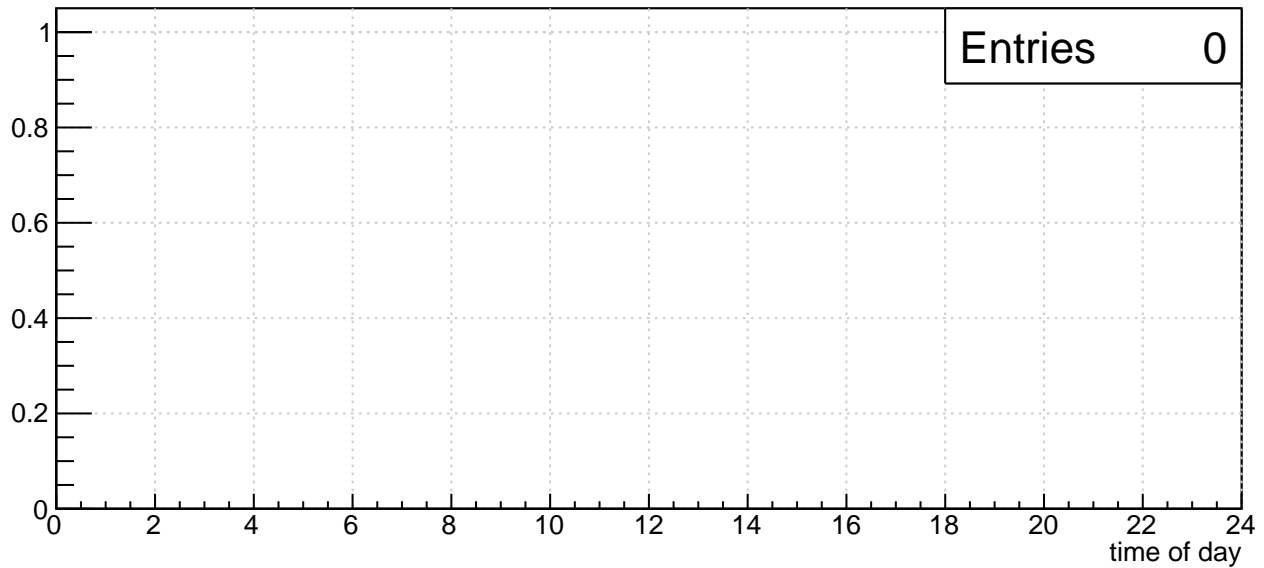
Number of events per day ( connected )



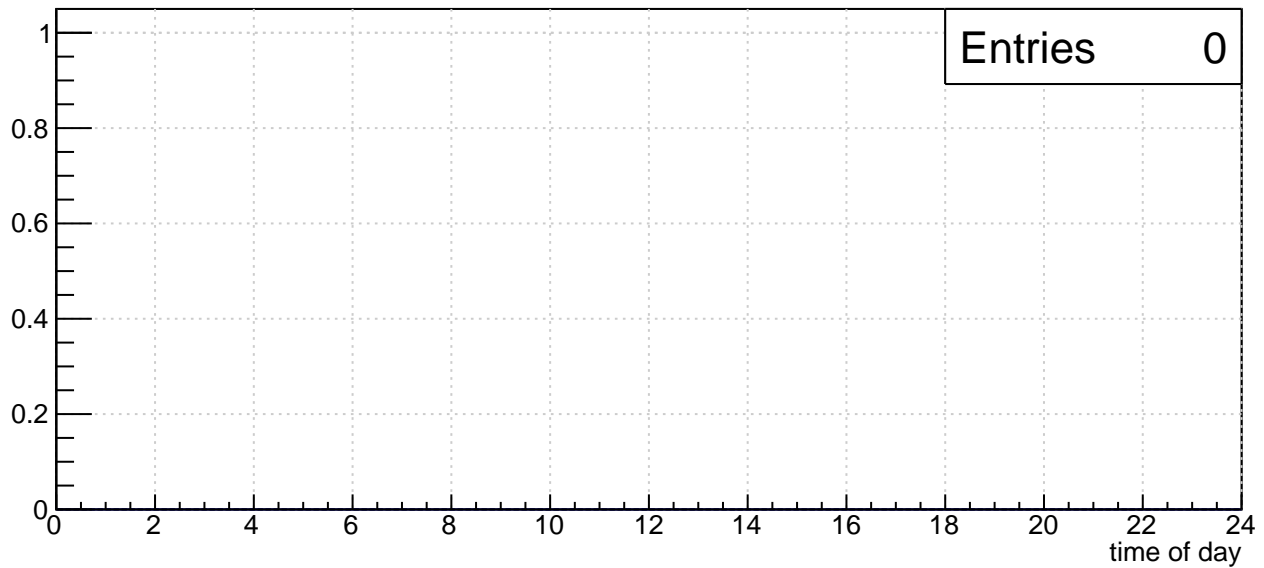
Number of events per day ( unconnected )



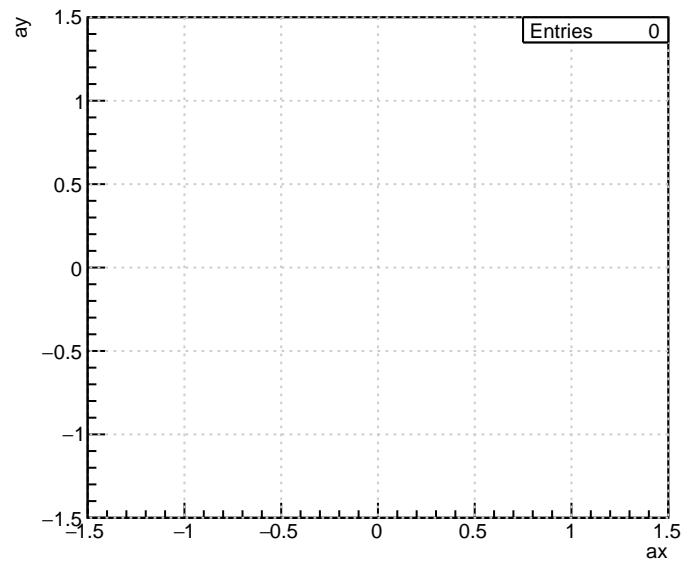
time of day ( connected )



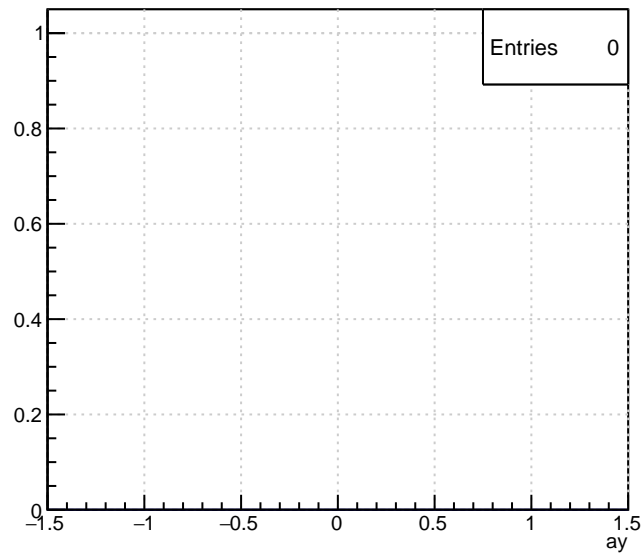
time of day ( unconnected )



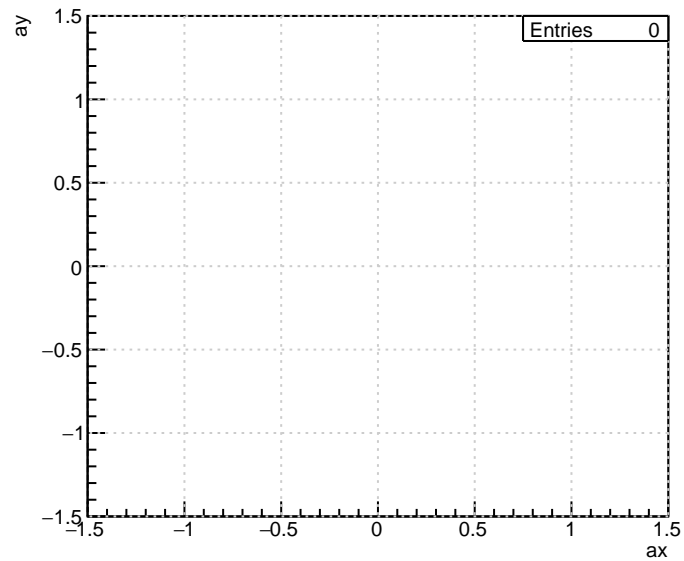
angle ( connected )



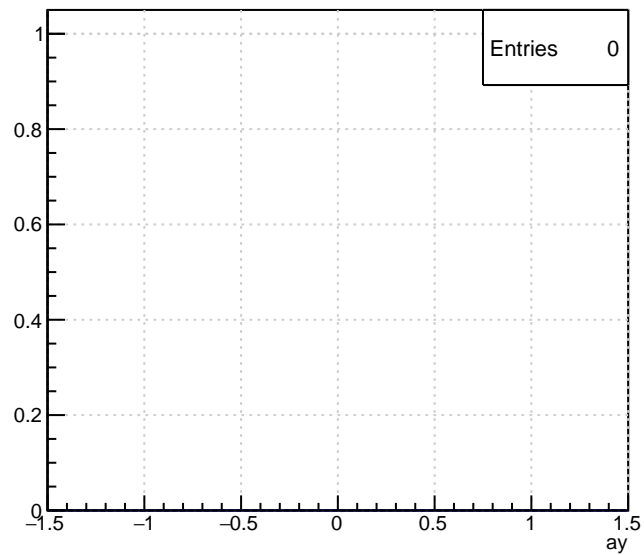
angle ( connected )



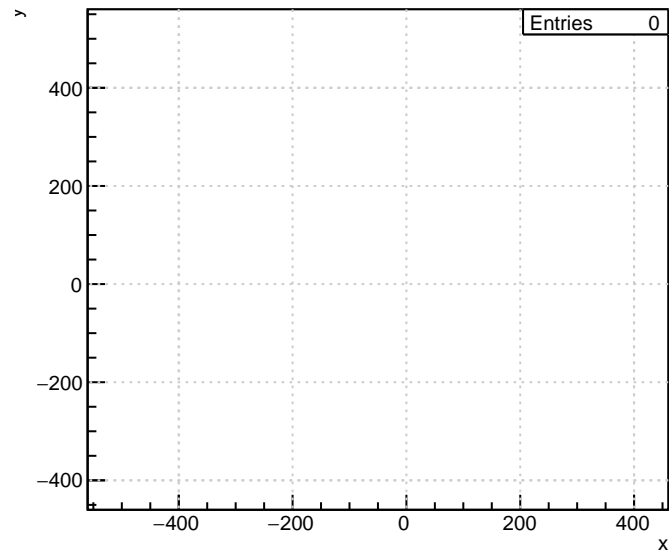
angle ( unconnected )



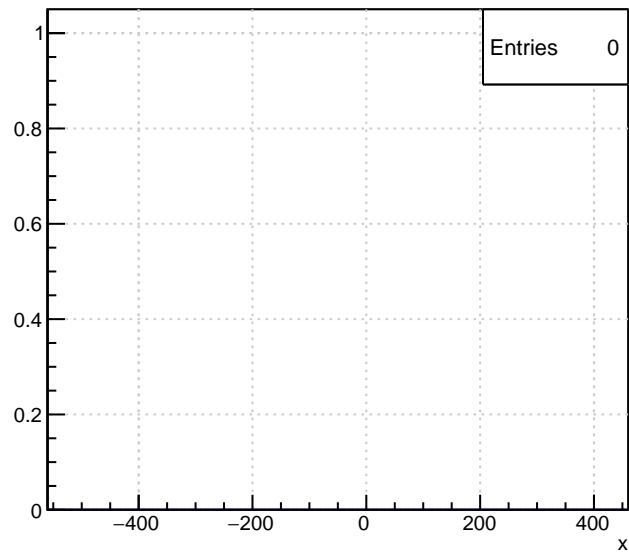
angle ( unconnected )



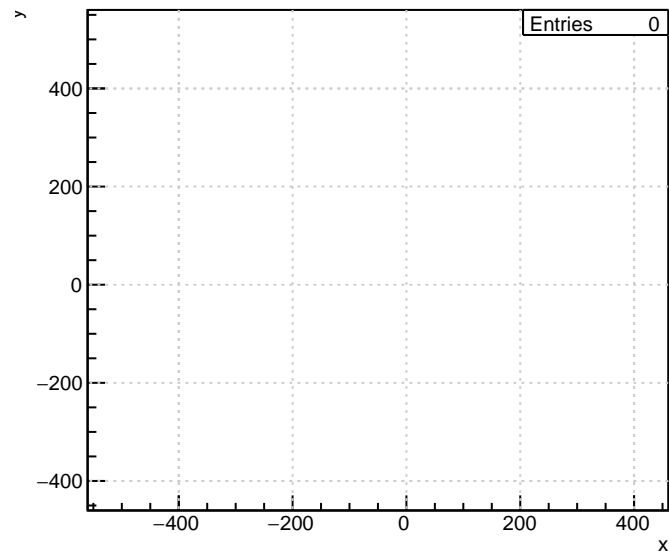
position ( connected )



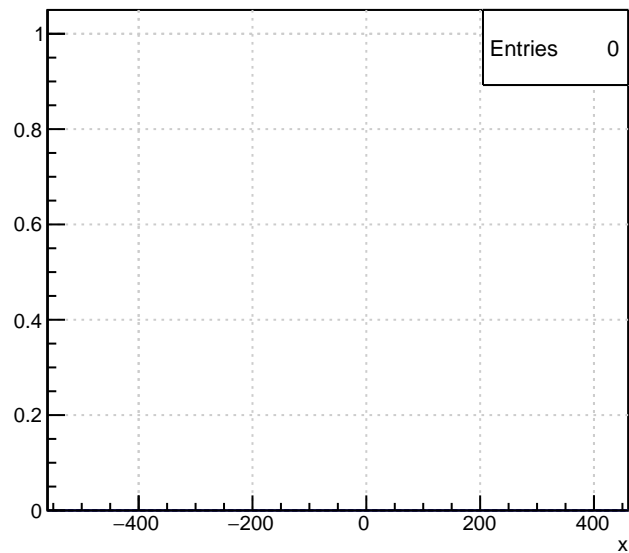
position ( connected )



position ( unconnected )



position ( unconnected )



Number of Clusters ( connected )



Number of BabyMIND tracks ( connected )



Number of Clusters ( unconnected )



Number of BabyMIND tracks ( unconnected )



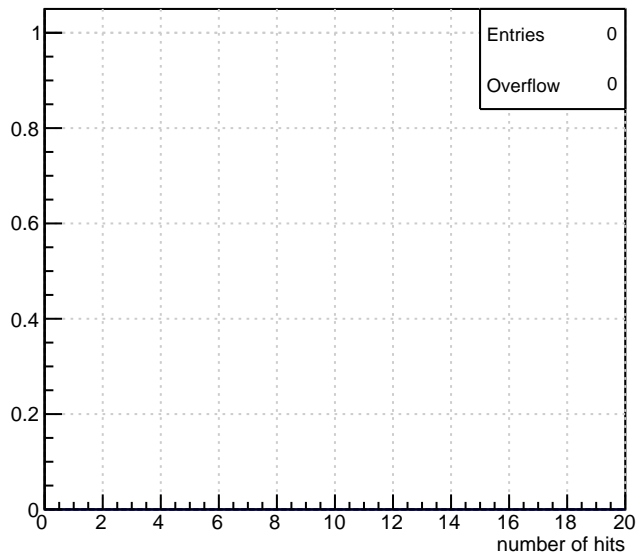
Number of Hits x-projection ( connected )



Number of Hits y-projection ( connected )



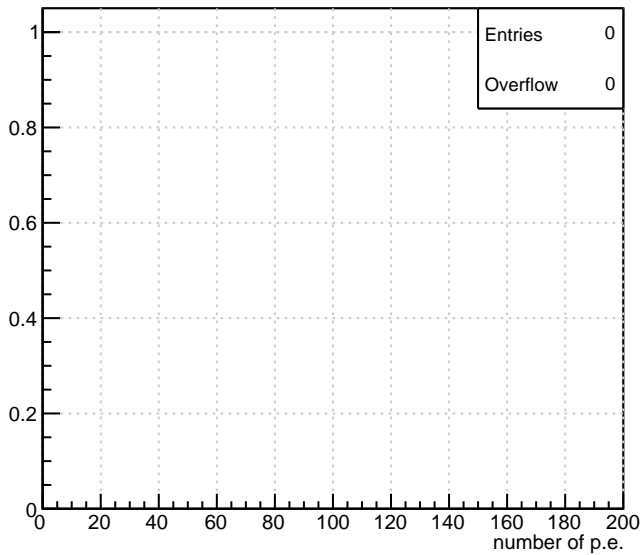
Number of Hits x-projection ( unconnected )



Number of Hits y-projection ( unconnected )



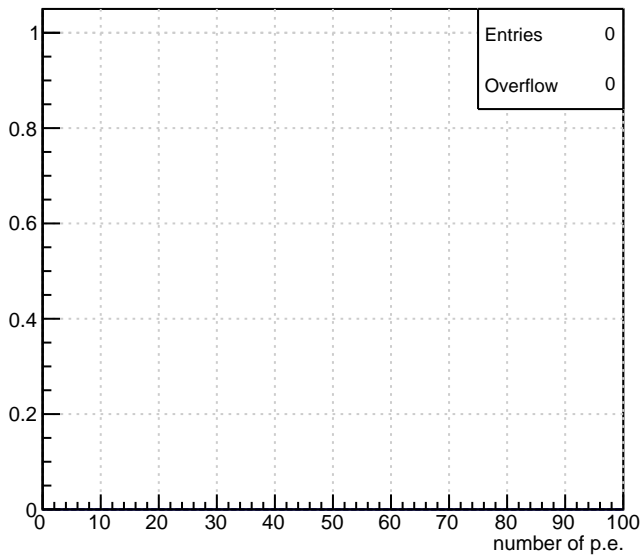
Sum of p.e. ( ADC trigger ) ( connected )



Sum of Time over Threshold ( TDC trigger ) ( connected )



Mean of p.e. ( ADC trigger ) ( connected )



Mean of Time over Threshold ( TDC trigger ) ( connected )





Sum of p.e. ( ADC trigger ) ( unconnected )



Sum of Time over Theshold ( TDC trigger ) ( unconnected )



Mean of p.e. ( ADC trigger ) ( unconnected )



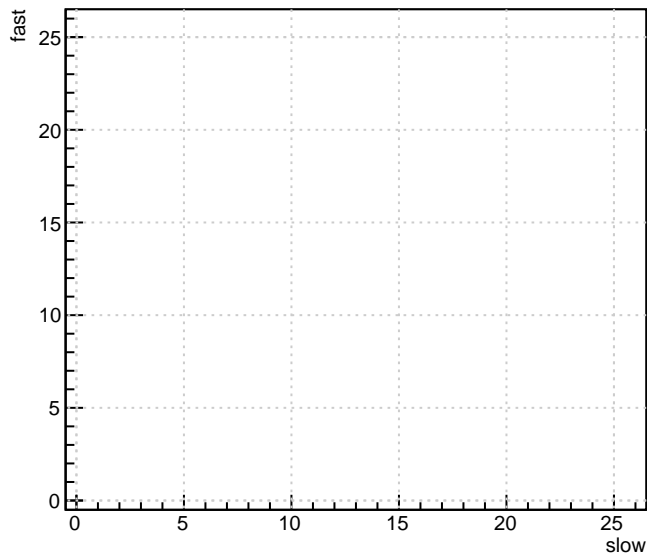
Mean of Time over Theshold ( TDC trigger ) ( unconnected )



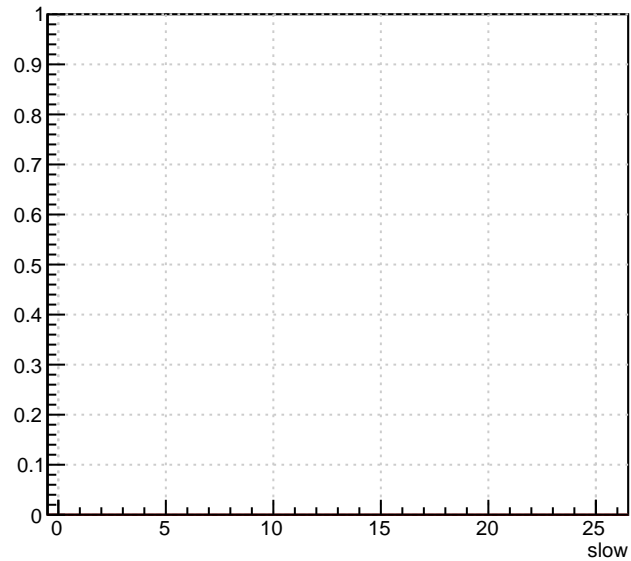
angle - efficiency map



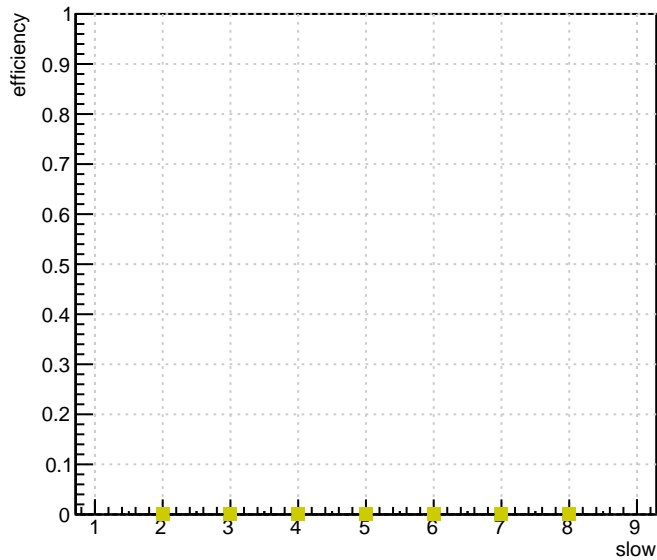
efficiency of each spot



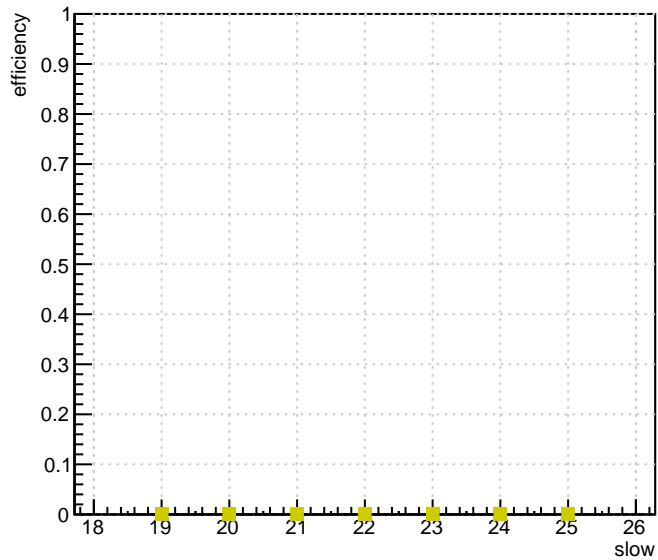
efficiency of slow spot



first half



latter half



Muon momentum ( connected events )



momentum dependence of efficiency



Muon momentum ( inefficiency events )

