Hall C User Howto

Experiment: HKS

How to operate HKS-TOF counters (HTOF) and Enge hodoscopes (Ehodo)

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Abstract

This Howto outlines how to operate the HKS-TOF counters (HTOF) and Enge hodoscopes (Ehodo).

1 Counters

Specifications of HTOF and Ehodo are listed in Table 1.

Table 1: Specifications of HTOF and Ehodo.

name	segments	HV(V)	
HKS-1X	17	1800	
HKS-2X	18	1800	
HKS-1Y	9	1800	
Enge-hodo1-2	25×2	1600	
Enge-hodo3	1	1800	

2 Operation

You have to turn High voltage ON, and check the voltage and the current are normal. When the alarm of HV rings, check the HV monitor and turn ON the channel which is Off. You have to monitor the hit pattern and check if there is a counter with low statistics. You have to monitor gains of ADC by the histograms and call expert if you find a low gain. You have to monitor the peak position of on-time events of TDC by the histograms and call expert if you find an non-negligible shift.