

FADC parameters

- Threshold: FADC integration starts on rising edge, stops on falling edge
 - ▶ Higher threshold hurts energy resolution for small hits
 - ▶ Lower threshold hurts two-hit resolution
- Delay: time between rising edge and hit output to clusterer
 - ▶ If delay is too small, hit integration gets cut off
- ADC scale
 - ▶ Coarser scale hurts energy resolution
 - ▶ Finer scale means more bits, longer time window (due to bandwidth restriction)

FADC trigger rates

- Arbitrary parameters: 5 MeV threshold, 128 ns delay, ADC scale 10 MeV

Cut	A' (%)	EGS5 (kHz)	Geant4 (kHz)
Opposite quadrants	26.4	388	1688
Cluster energy	24.7	228	925
Energy sum	24.7	183	588
Energy difference	24.7	163	518
Energy-distance	21.8	38	55
Coplanarity	21.3	18	28
No double triggers	20.0	18	28