

HODOSCOPE TEST@JAEA

PROGRESS REPORT(20180131)

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NEW TEST CONDITION



Scinti1 : MPPC both side
(with PMT amp (×4))

Scinti 2&3 : PMT both side
(H6612 fast PMT)

Scintillator : 15^L x 7^W x 1^T cm **MPPC : 3050CS (0.3 x 0.3 cm)**
(Shorter and wider) **(Smaller area, same pixel size)**

Trigger condition - All coincidence (PMTs & MPPCs)

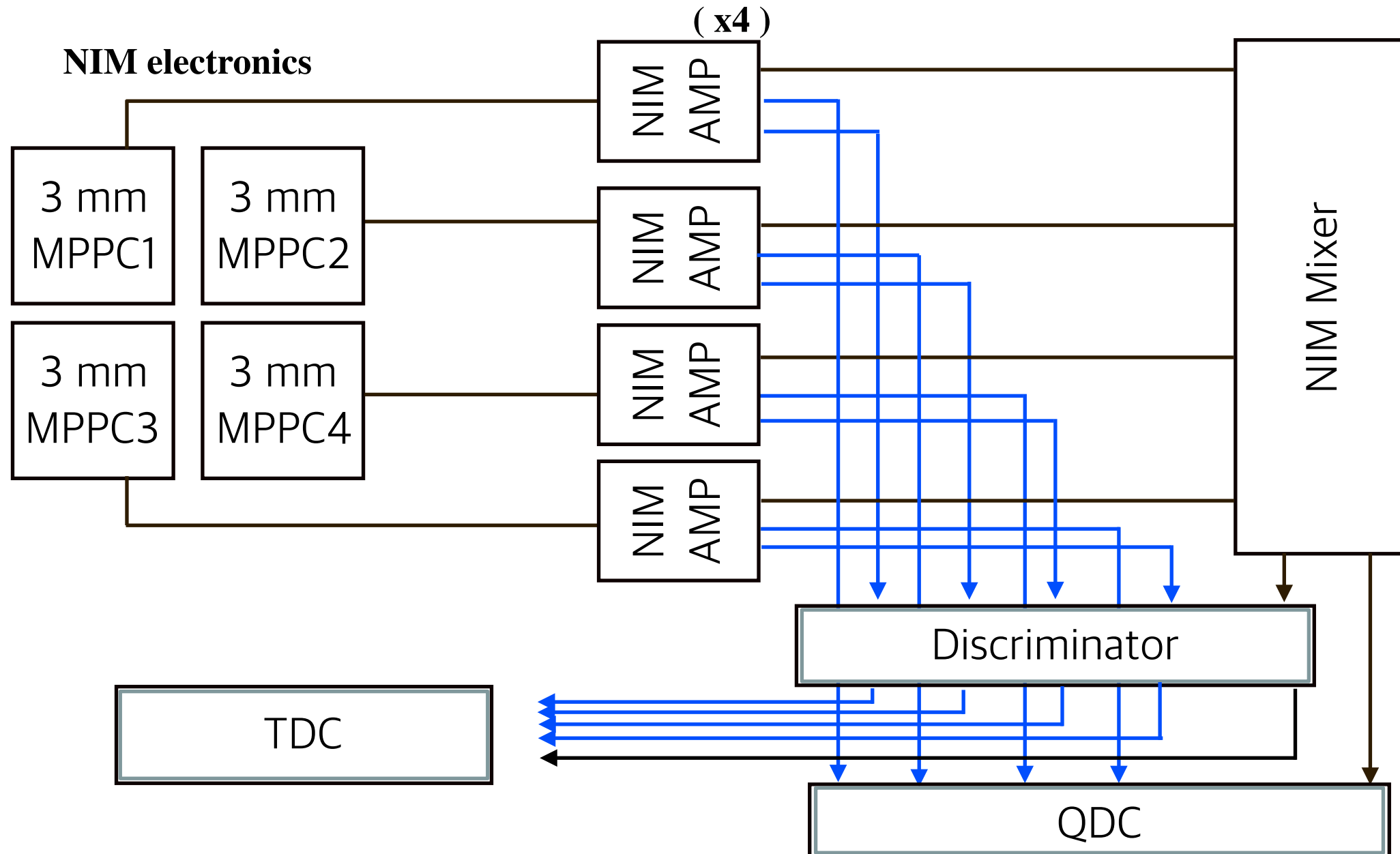
Trigger rate ~ 0.85 Hz

Channel map

scinti 1	MPPC Up	MPPC Down
scinti 2	PMT 1 Up	PMT 1 Down
scinti 3	PMT 2 Up	PMT 2 Down

SIGNAL FLOW - 3 MM MPPC

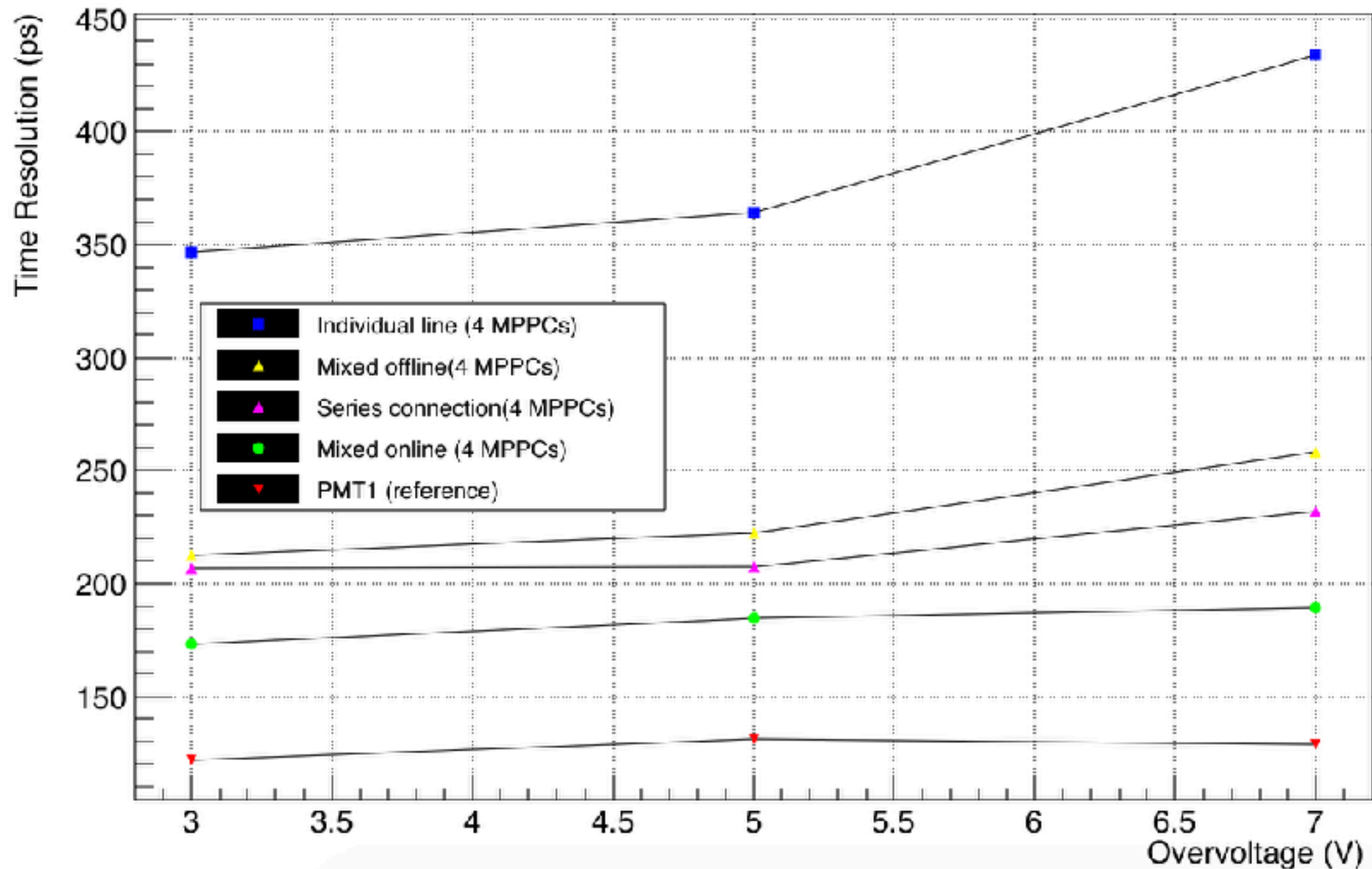
The number of MPPCs is four



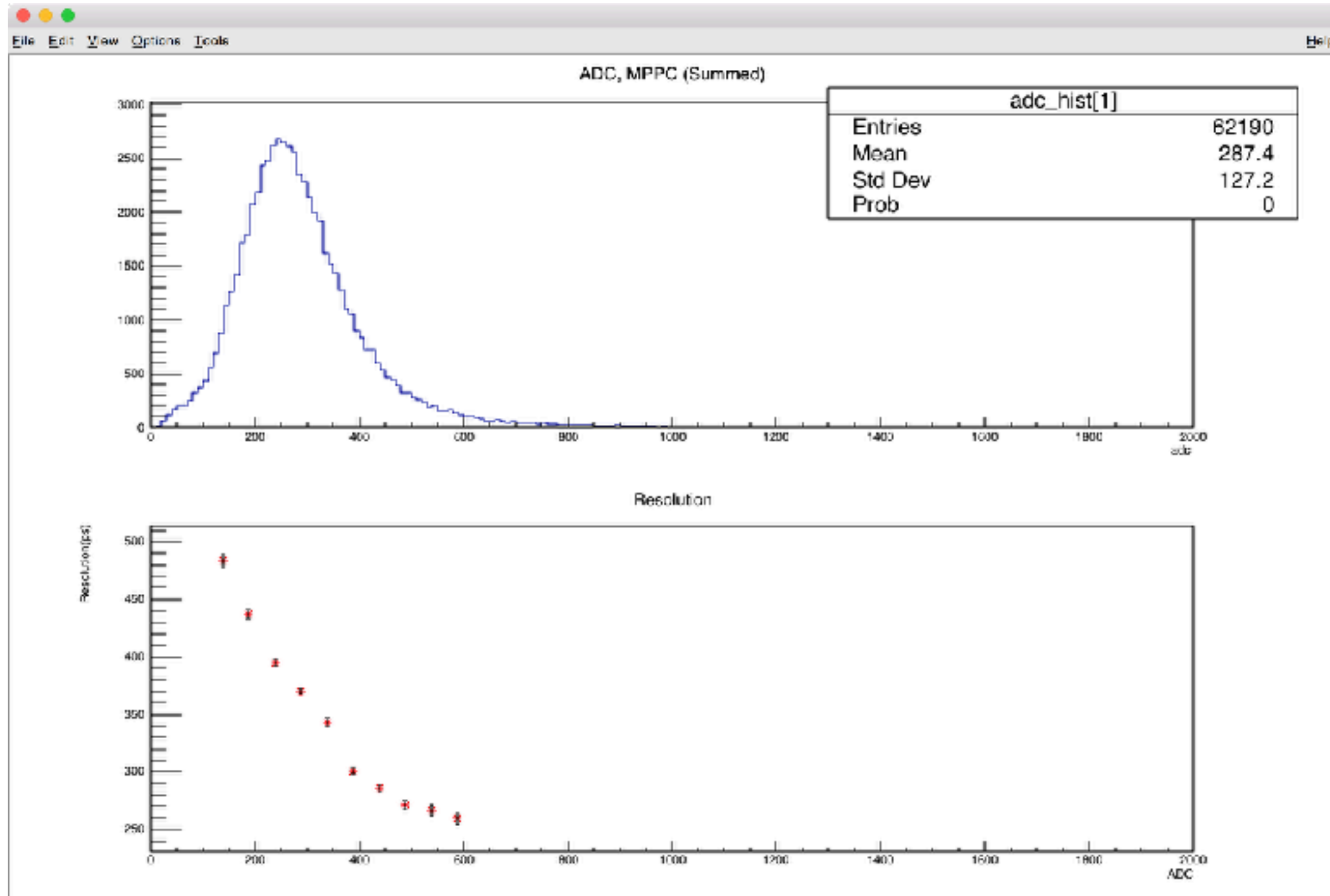
The blue lines indicate that received each MPPC's data separately for offline mixing

TIME RESOLUTION - 3 MM MPPC

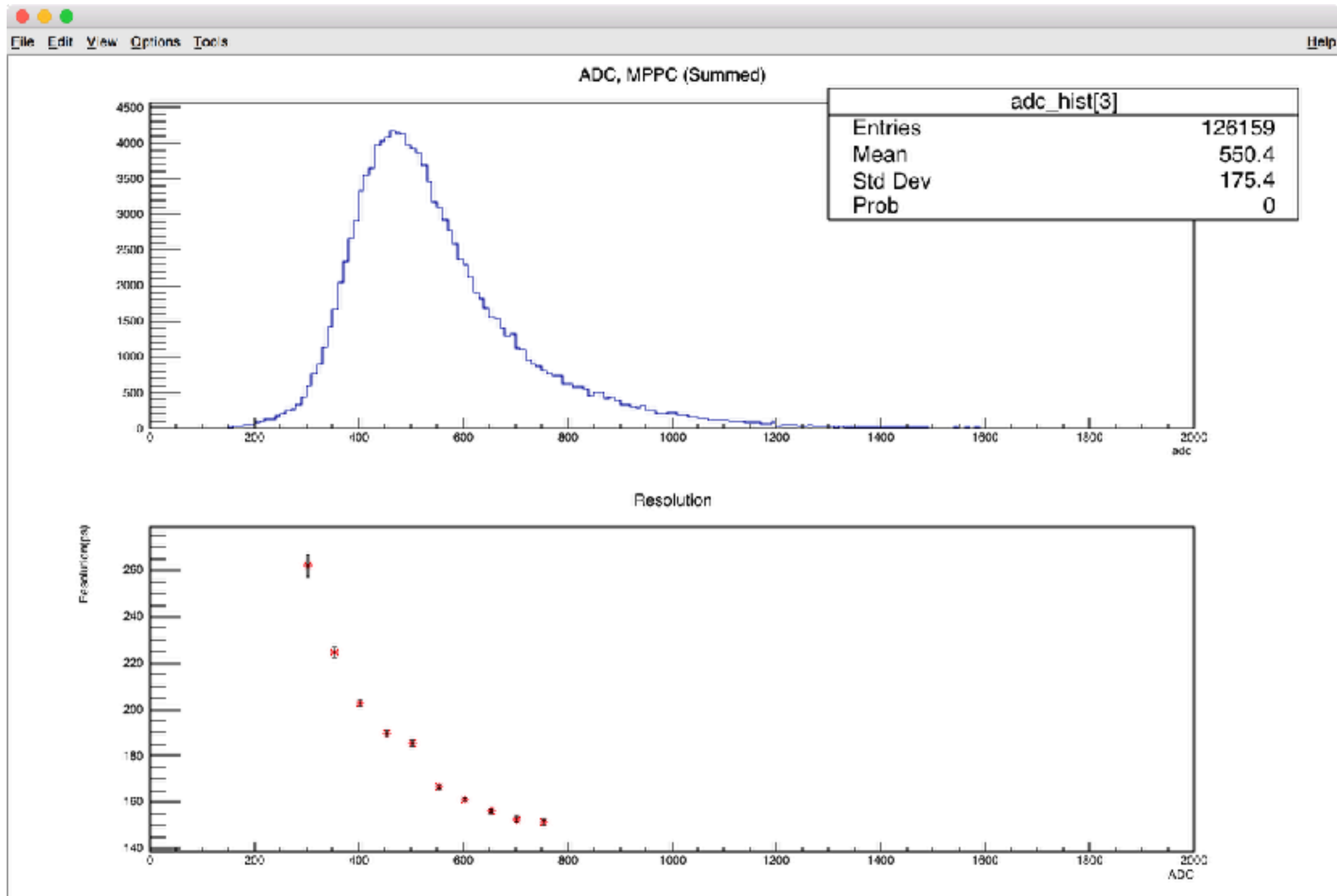
Four MPPCs data



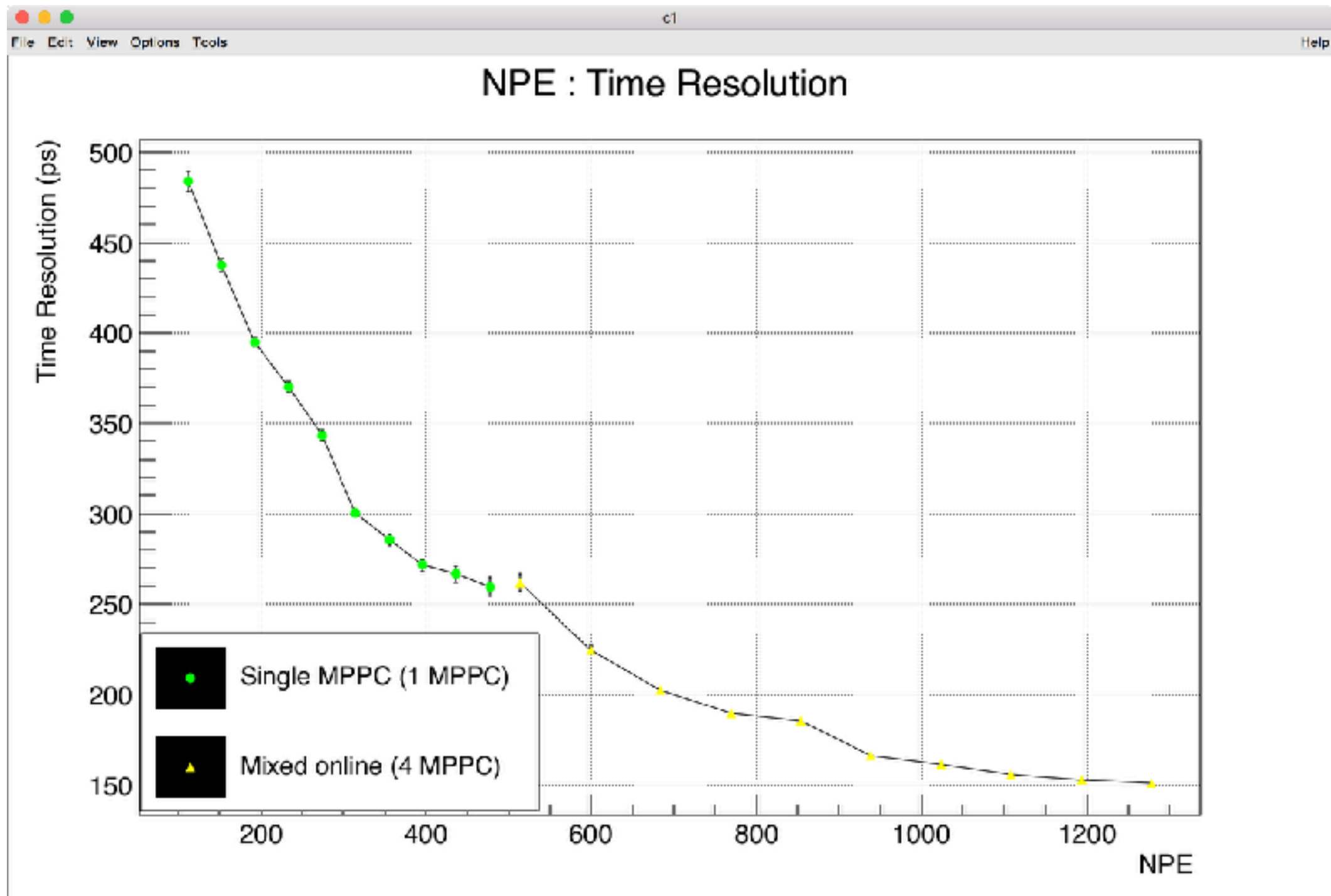
ADC:TIME RESOLUTION - 3 MM MPPC



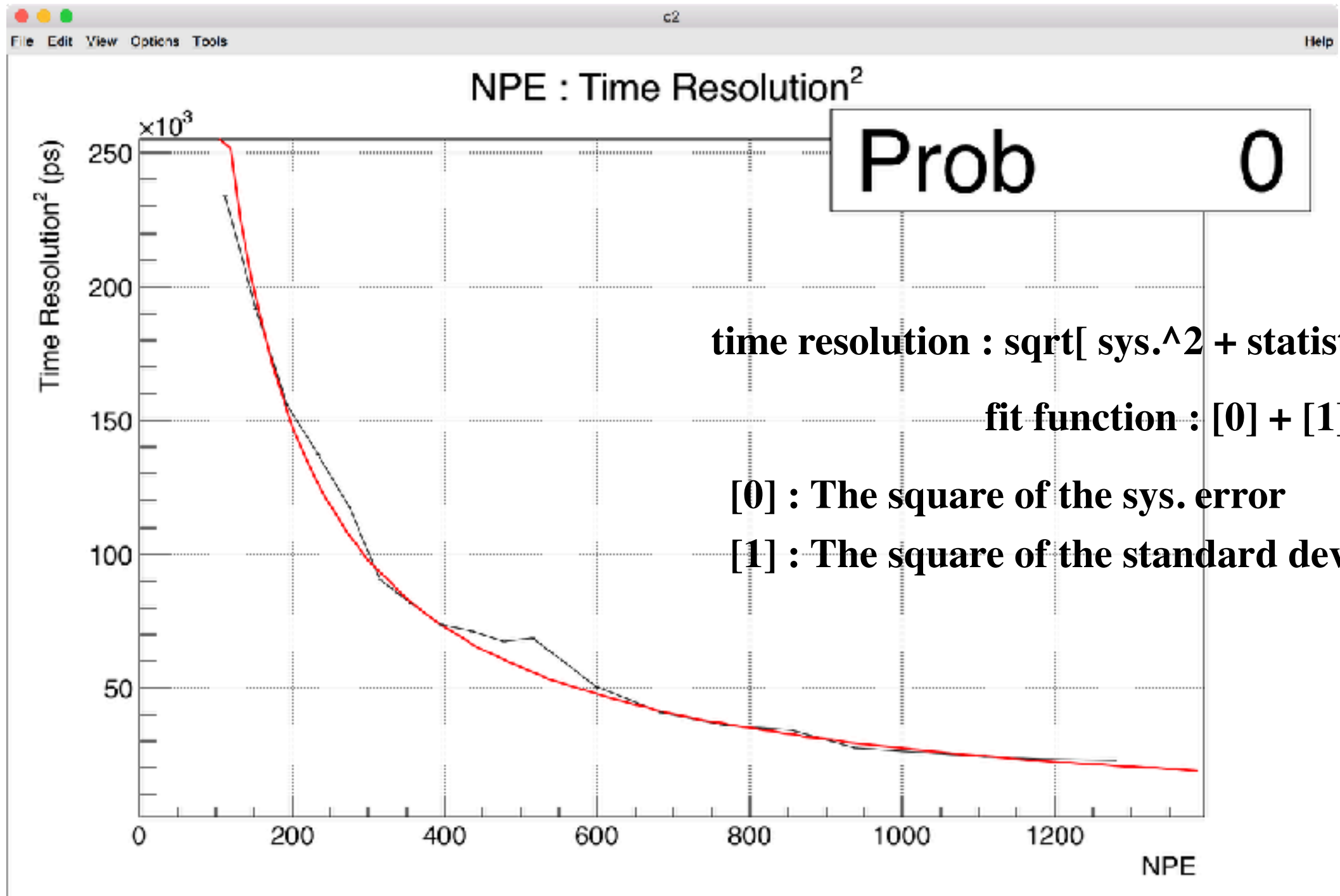
MIXED ADC: TIME RESOLUTION



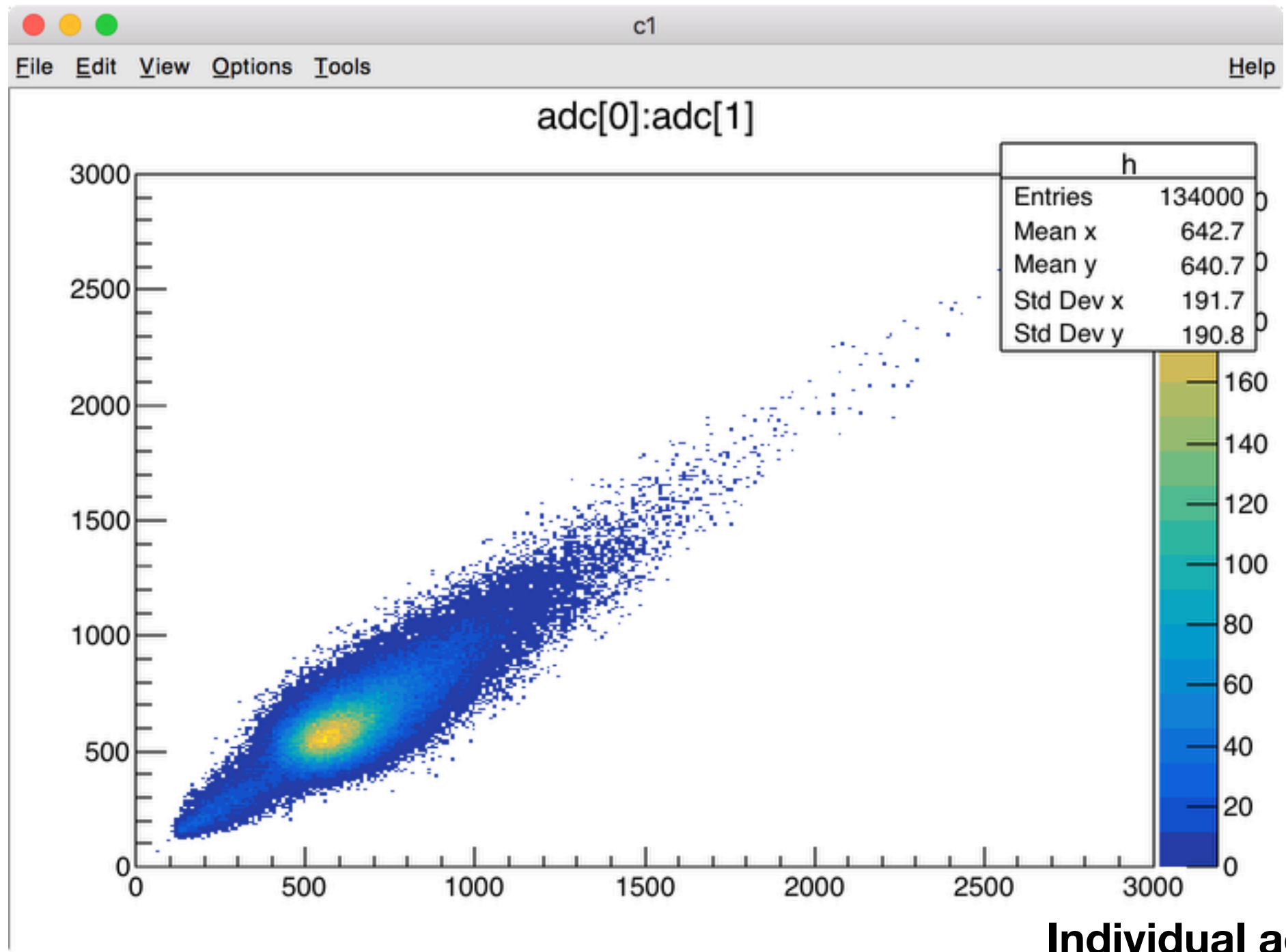
NPE: TIME RESOLUTION



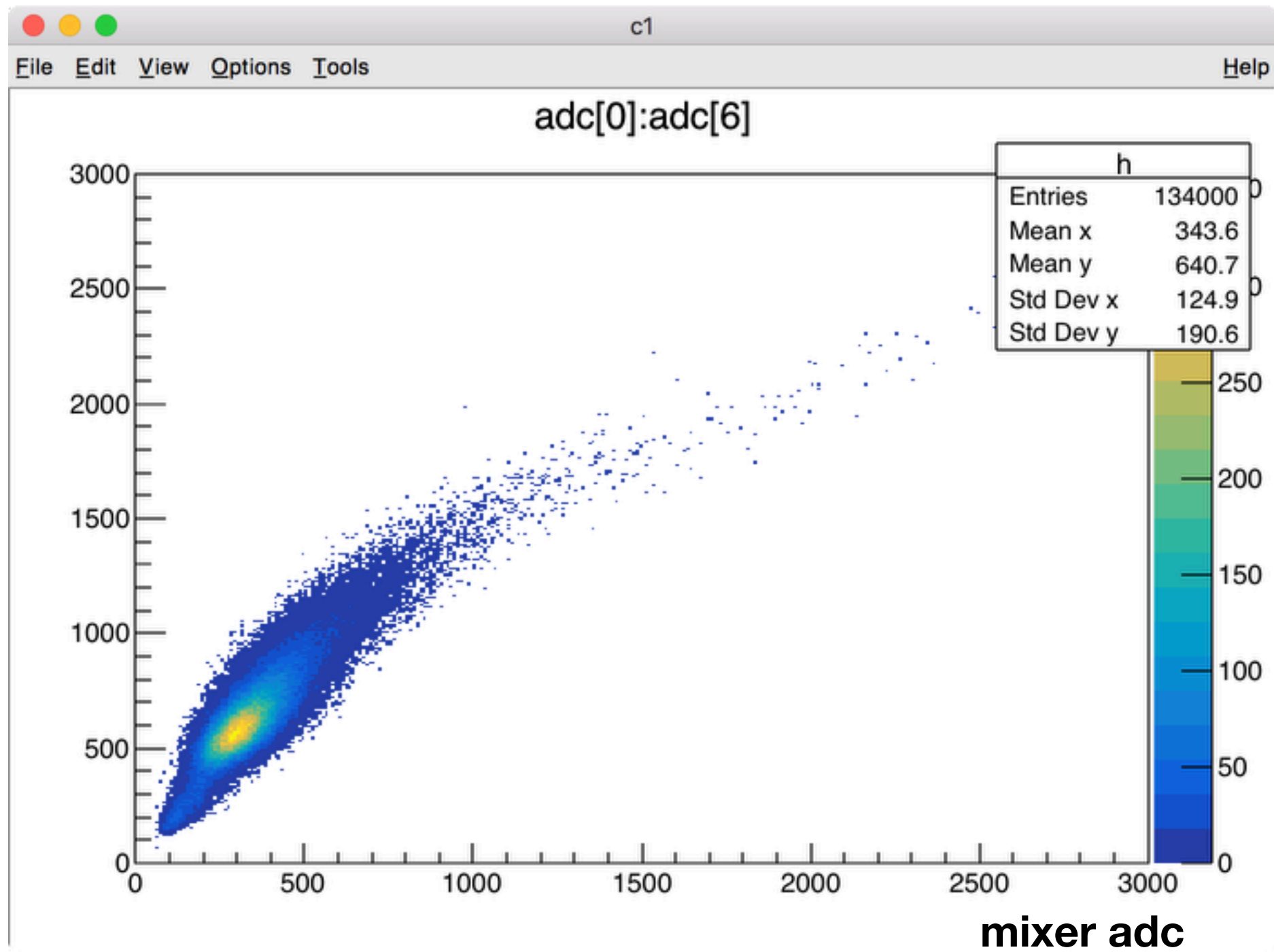
NPE:TIME RESOLUTION²



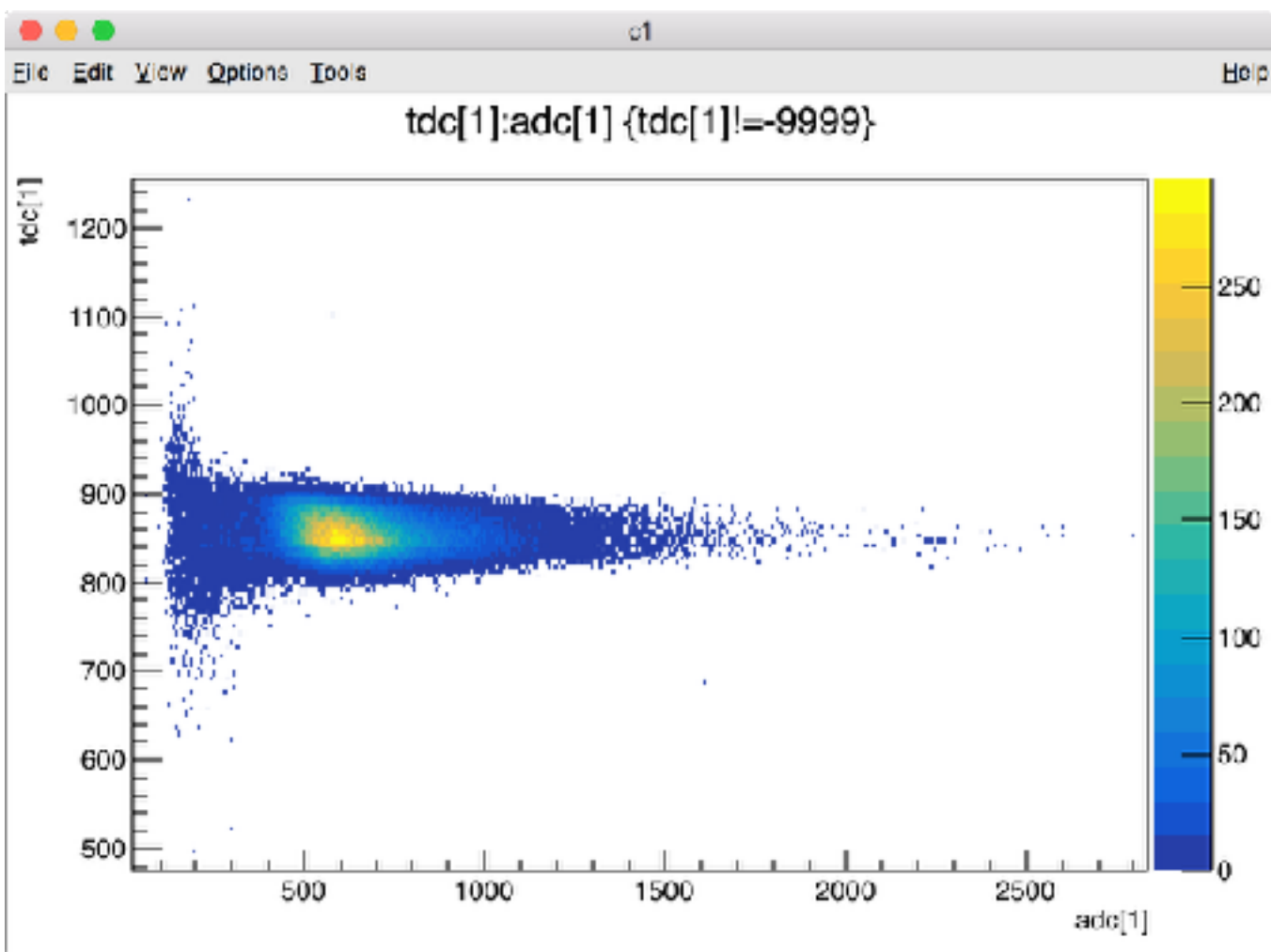
Individual adc



Individual adc

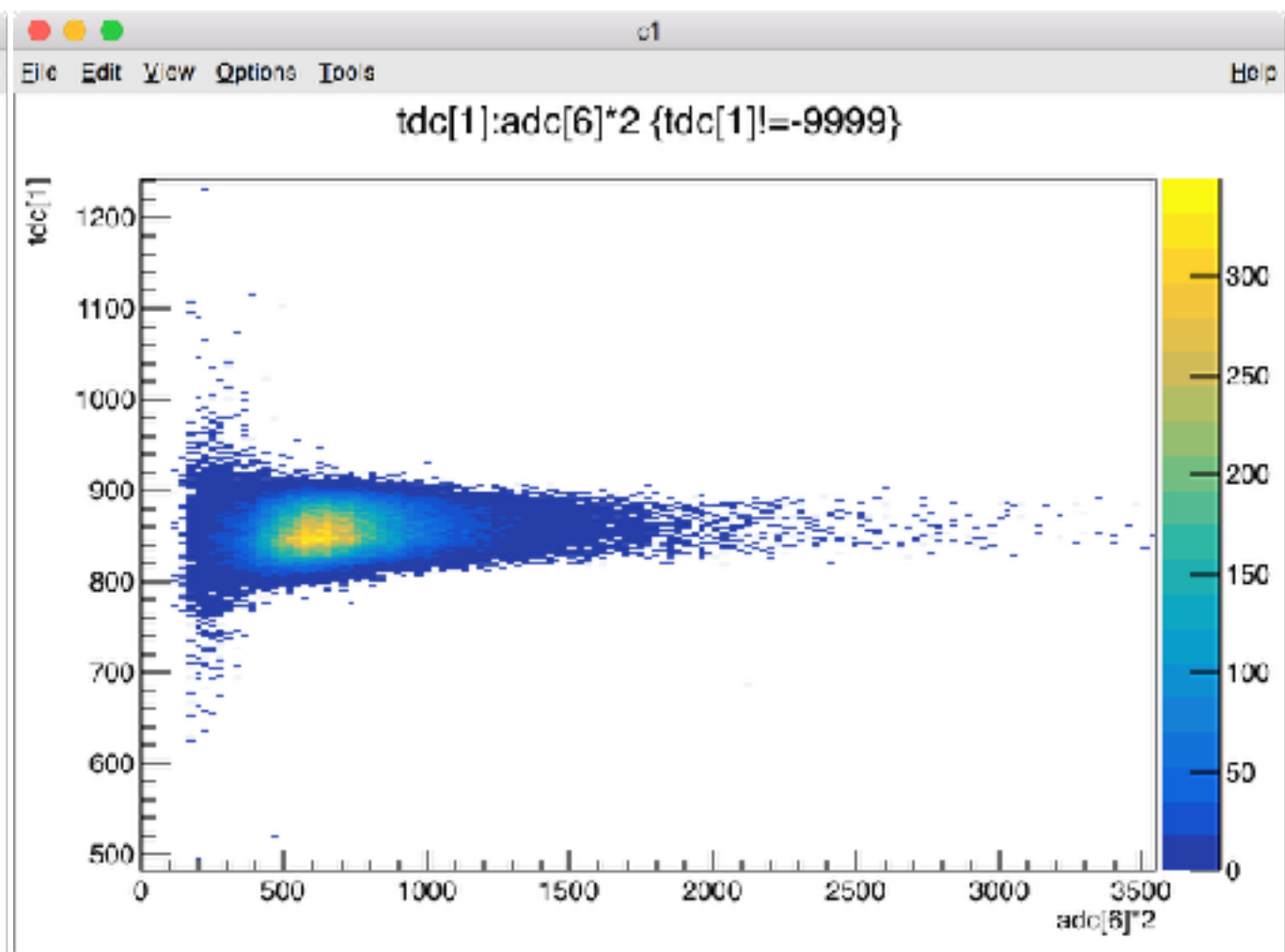


Individual tdc



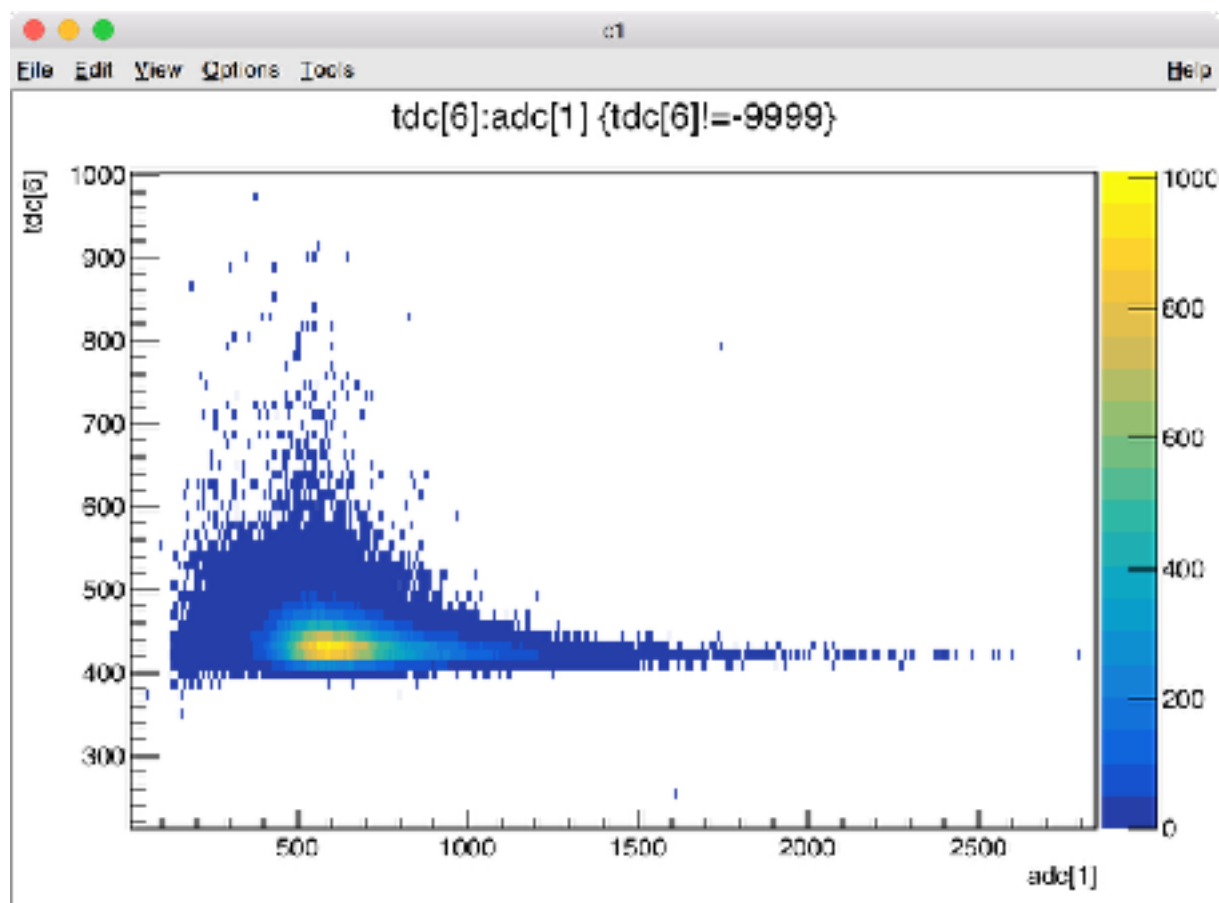
Individual adc

Individual tdc



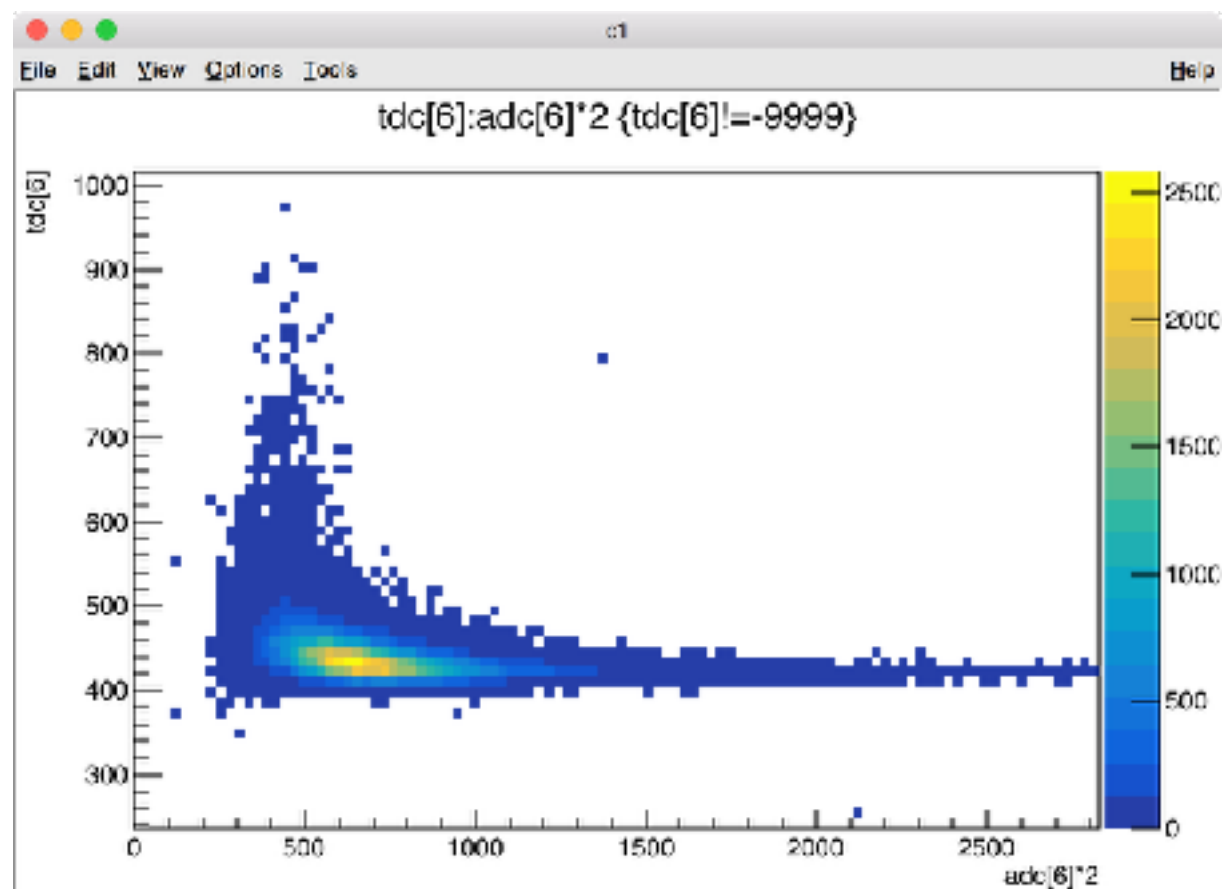
mixer adc

mixer tdc



Individual adc

mixer tdc



mixer adc