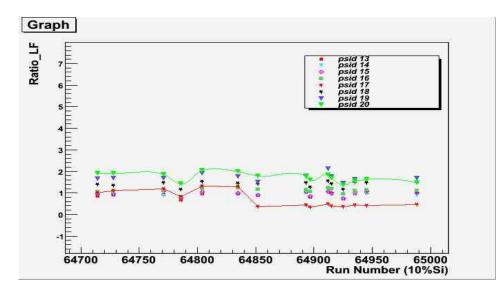
1) The rate of hits for each ps counter vs. run number

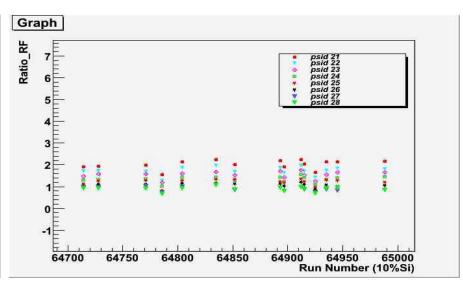
the ratio of each ps counter total hits to the number of events VS. run number

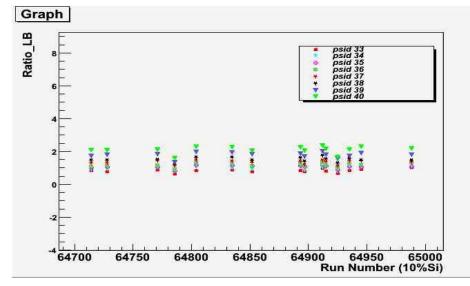
3)the ratio of coincidence signal of tagger and each ps counter to beam e- VS. run number

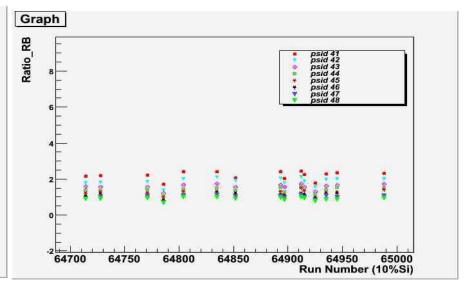
Y axis: The hits rate of each ps counters: number of hits/(time\* bc)

X axis: Run Number



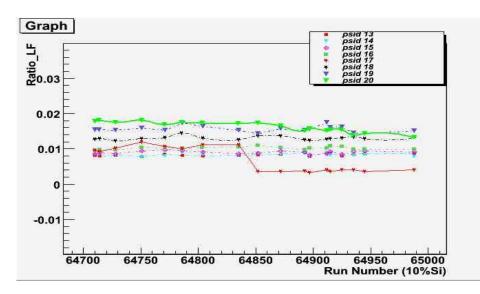


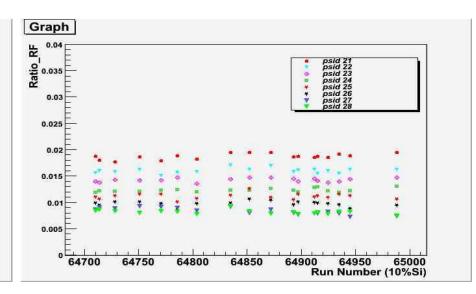


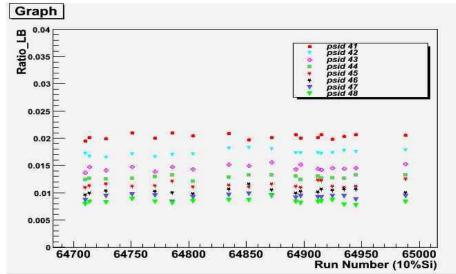


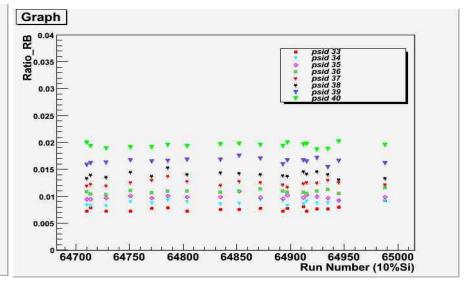
Y axis: number of hits/ number of events (event\_class = 1, MOR)

X axis: Run Number

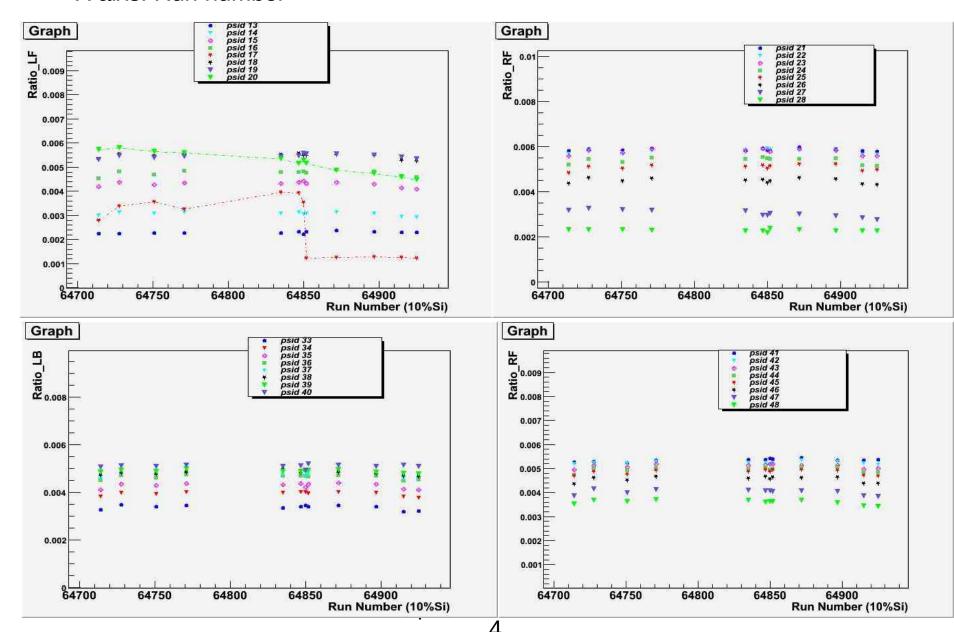








Y aixs : the ratio of coincidence signal of tagger and each ps counter to beam e-X aixs: Run number



# Used all ps counters:

Sigma: 0.518 ns

Signal to noise ratio:14.70

# Exclude ps\_id 17 and 20:

Sigma: 0.523 ns

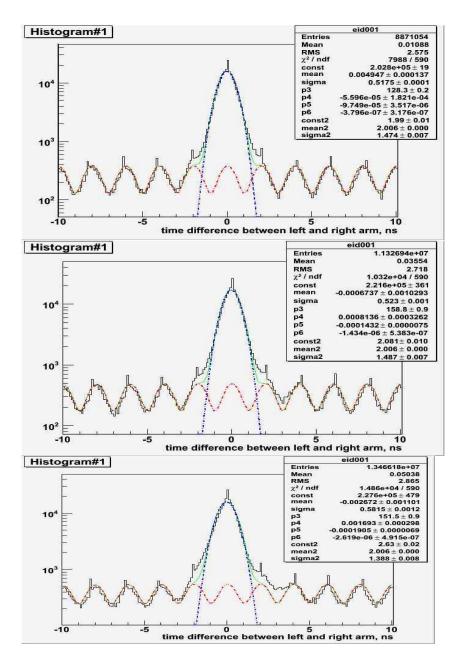
Signal to noise ratio:12.40

# Exclude all left-front ps counters:

Sigma: 0.582 ns

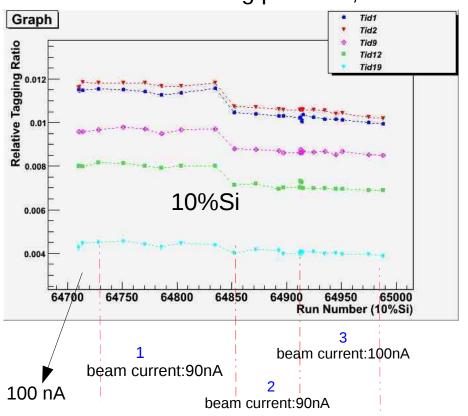
Signal to noise ratio:9.99

# Tdiff of left and right track

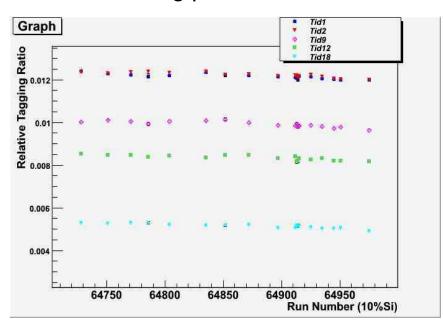


Relative tagging ratio of Tid1, Tid2, Tid19, Tid12, Tid19 as function of run number of 22 runs spanning all production runs with Si target (clock trigger)

## Before excluding psid #17,20



### After excluding psid #17,20

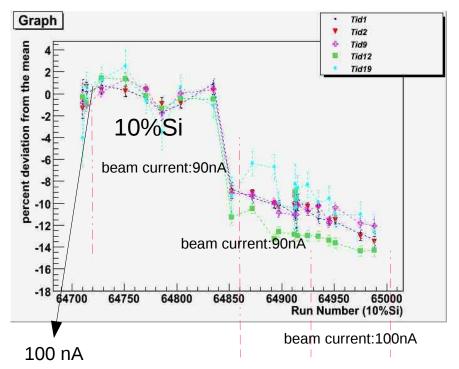


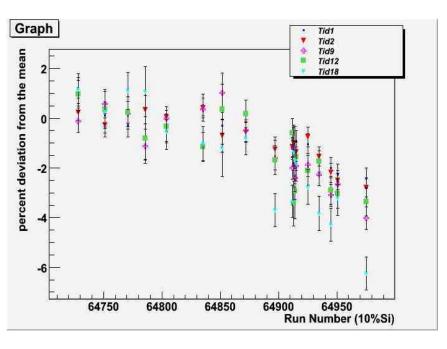
- 1. Run Number( 90nA ): 64710, 64714(100nA), 64728, 64751, 64771, 64786, 64804, 64835
- 2. Run Number(90nA): 64852, 64872, 64893, 64897, 64912, 64913
- 3. Run Number(100nA): 64914 ,64915,64925,64935,64945,64951,64975,64988

Percent deviation from the average mean value as the function of run numbers, and the average mean values were calculated for each T-counters from 7 of 20 runs at the range from 64728 to 64850

### Before excluding psid #17,20

# After excluding psid #17,20

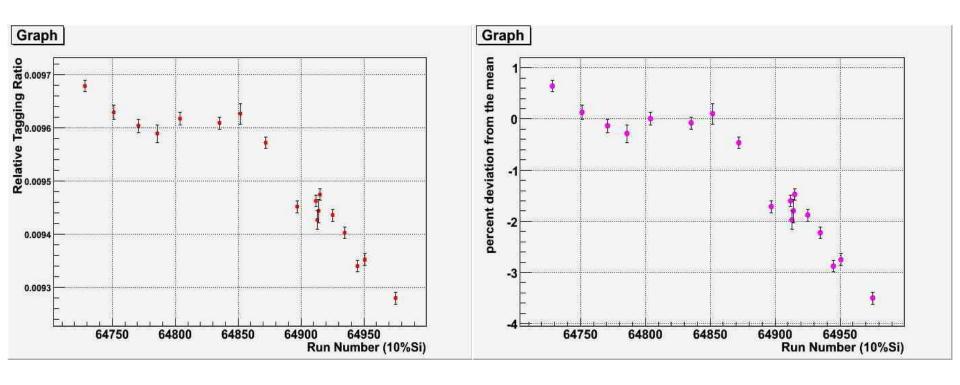




- 1. Run Number( 90nA ): 64710, 64714(100nA), 64728, 64751, 64771, 64786, 64804, 64835
- 2. Run Number(90nA): 64852, 64872, 64893, 64897, 64912, 64913
- 3. Run Number(100nA): 64914 ,64915,64925,64935,64945,64951,64975,64988

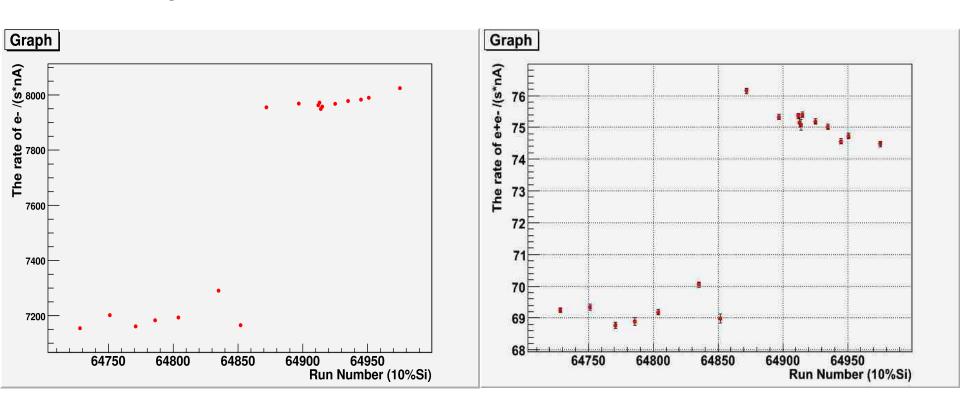
## After excluding psid #17,20

Relative tagging ratio and percent deviation of combined all T-counters as function of run number of 20 runs spanning all production runs with Si target (clock trigger) Percent deviation of combined all T-counters as function of run number of 20 runs spanning all production runs with Si target (clock trigger)



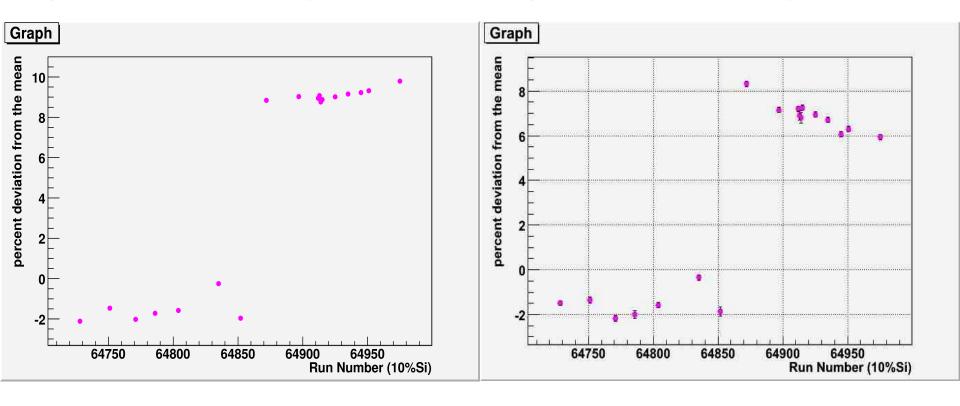
The average e- rate for each event

The average e+e- rate for each event



The percent deviation from average mean for e-

The percent deviation from average mean for e+e+



Relative tagging ratio and percent deviation of combined all T-counters as function of run number (clock trigger)

Percent deviation of combined all T-counters as function of run number (clock trigger)

