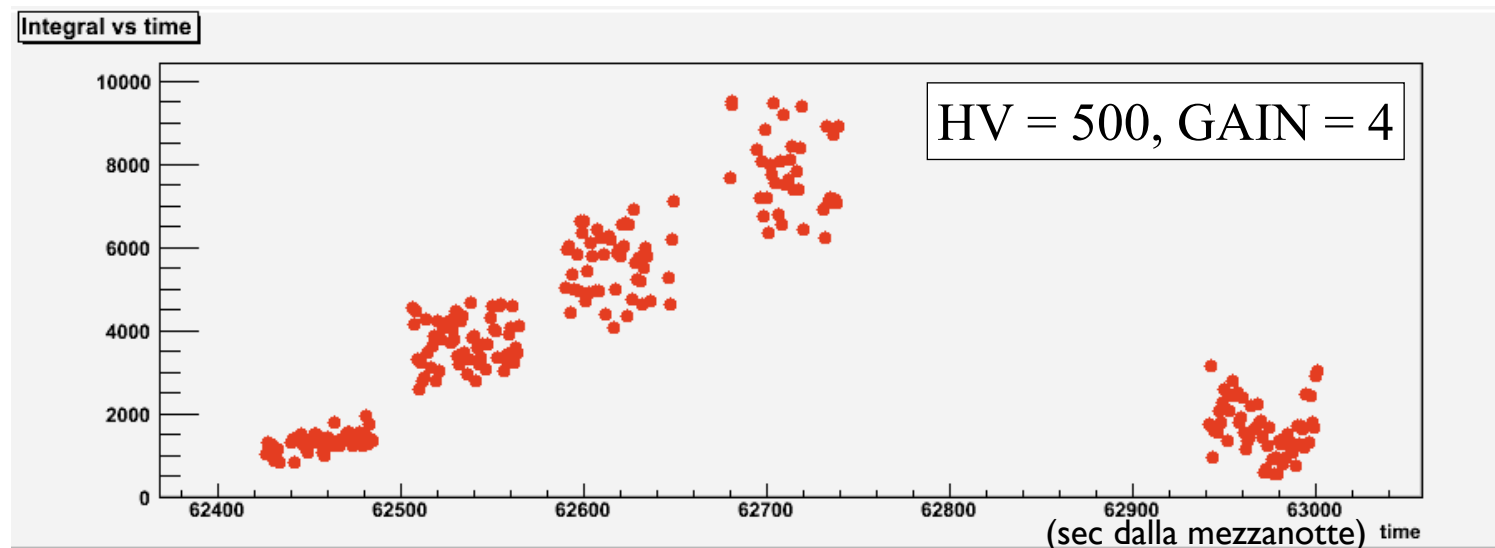
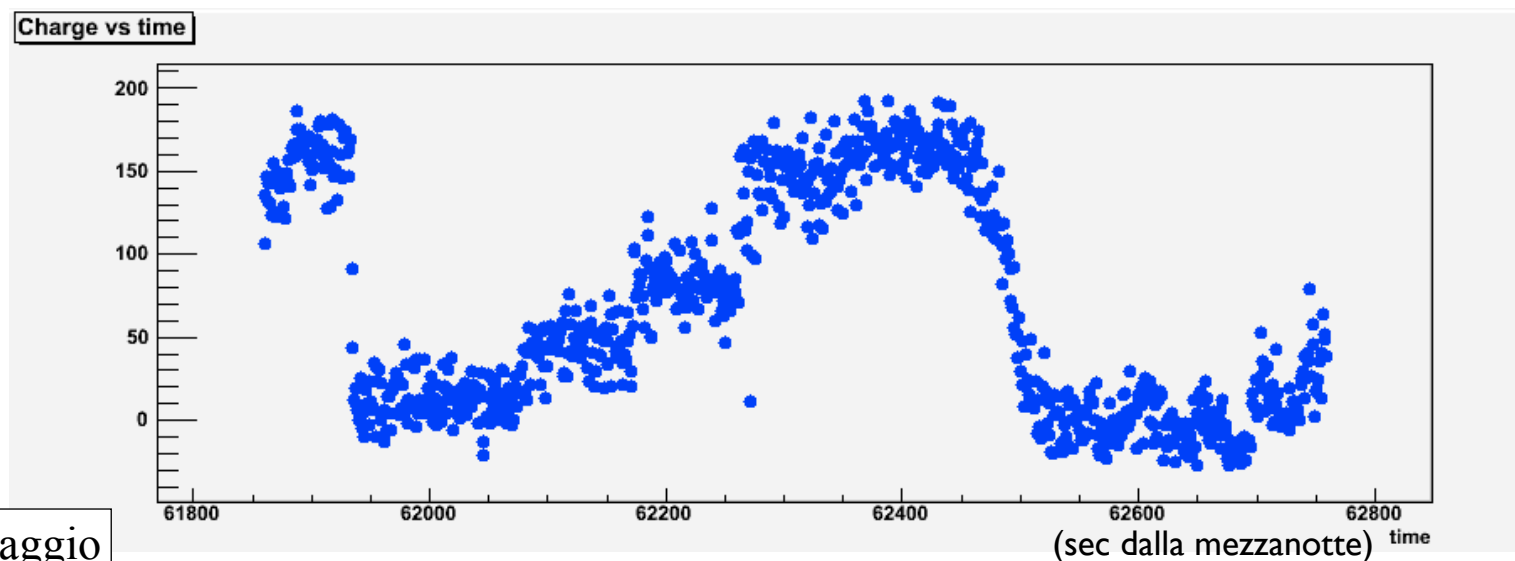


Integrale del profilo del fascio ottenuto con il prototipo, in funzione del tempo



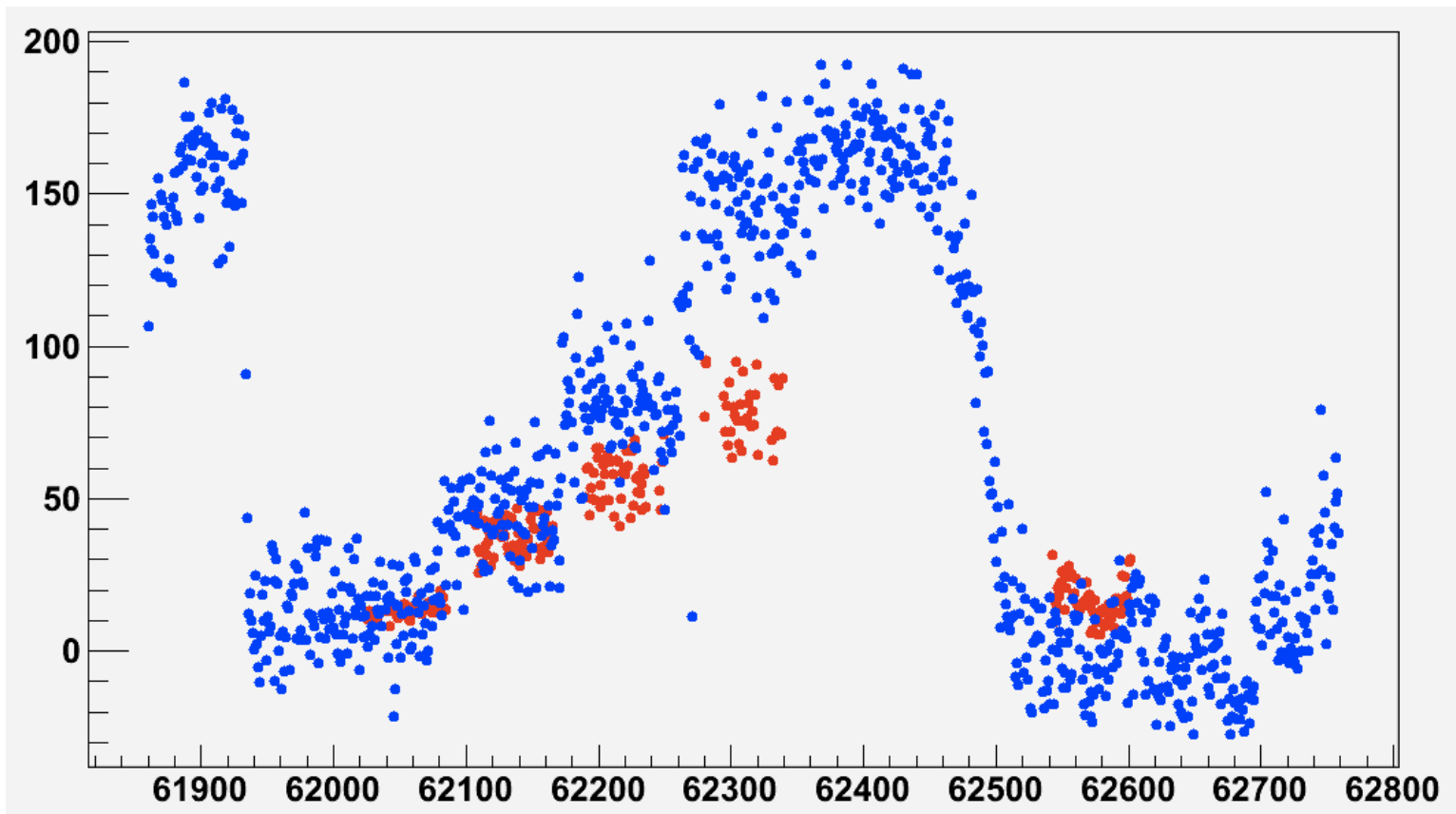
Carica del fascio misurata dal toroide della BTF, in funzione del tempo



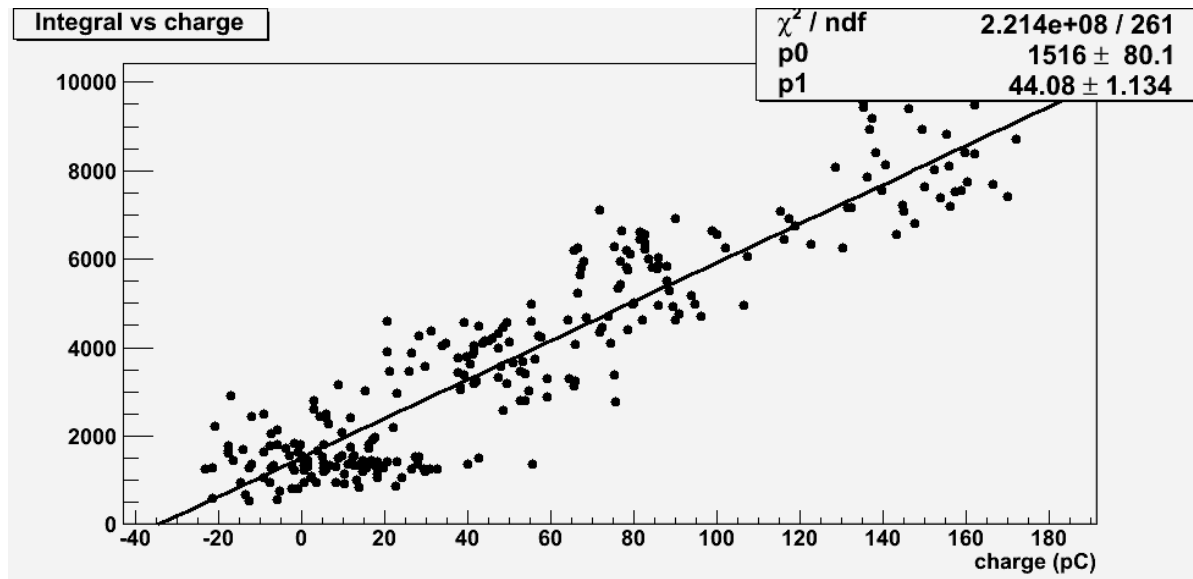
7 maggio

Non conosciamo la **differenza temporale tra le 2 TimeStamp**
(Maroc-Toroide)

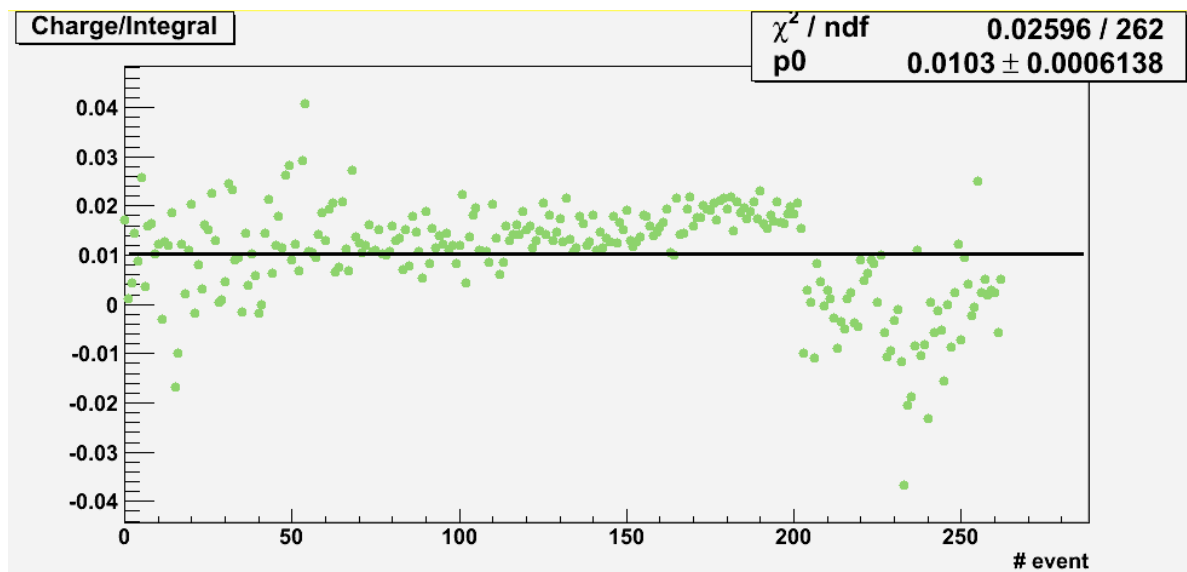
Un primo allineamento lo facciamo a occhio:
 $\Delta t = 400 \text{ s} \Rightarrow \text{TimeStampMaroc} = \text{TimeStampToroide} - 400$



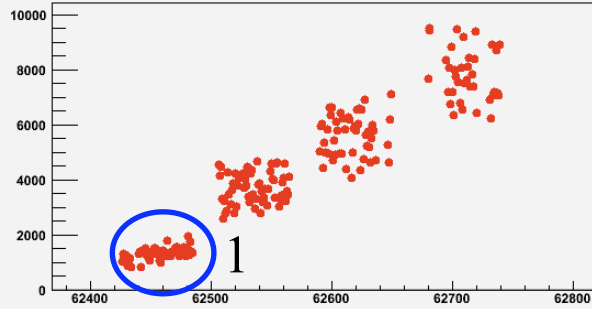
Integrale Vs Carica misurata dal toroide shot per shot ($\Delta t = 400$ s)



Rapporto tra Carica e Integrale shot per shot ($\Delta t = 400$ s)

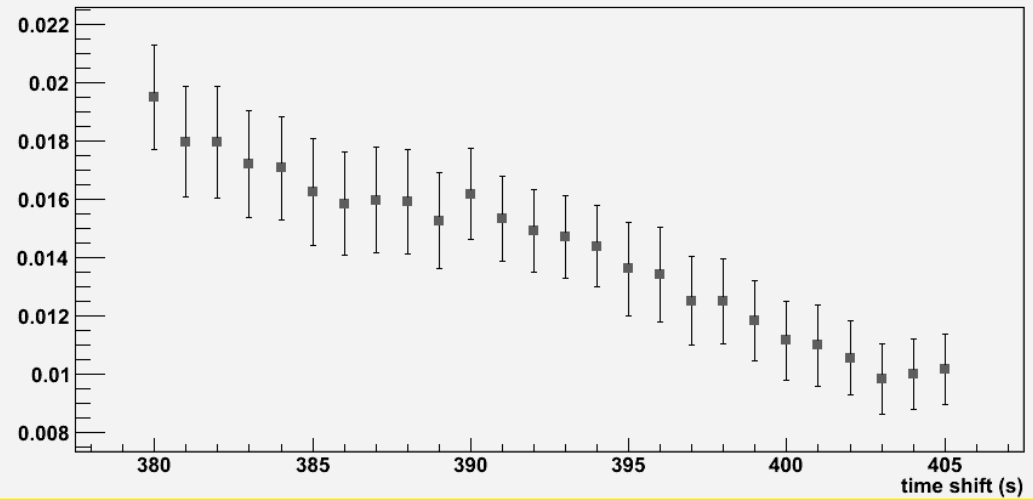


Integral vs time



Per trovare il Δt analizziamo i 5 blocchi separatamente (380 ÷ 405)

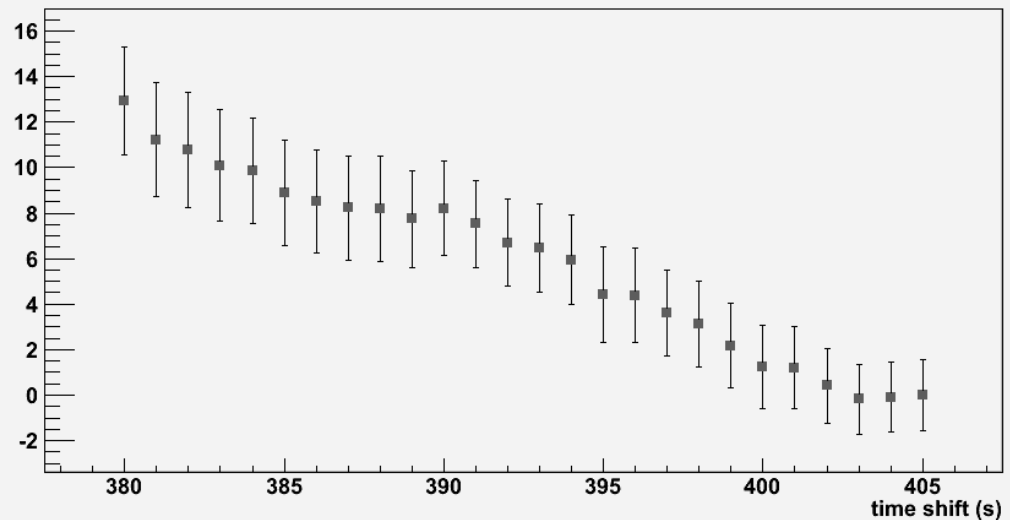
Rapporto Carica/Integrale



Rapporto medio
Carica/Integrale al
variare di Δt
(380 ÷ 405 s)



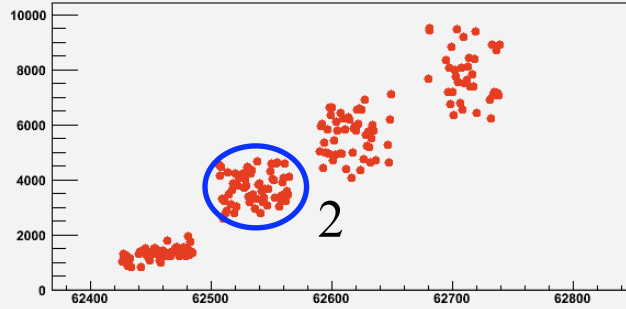
Differenza Carica-Integrale/100



Differenza media
Carica - Integrale/100
al variare di Δt (380 ÷
405)



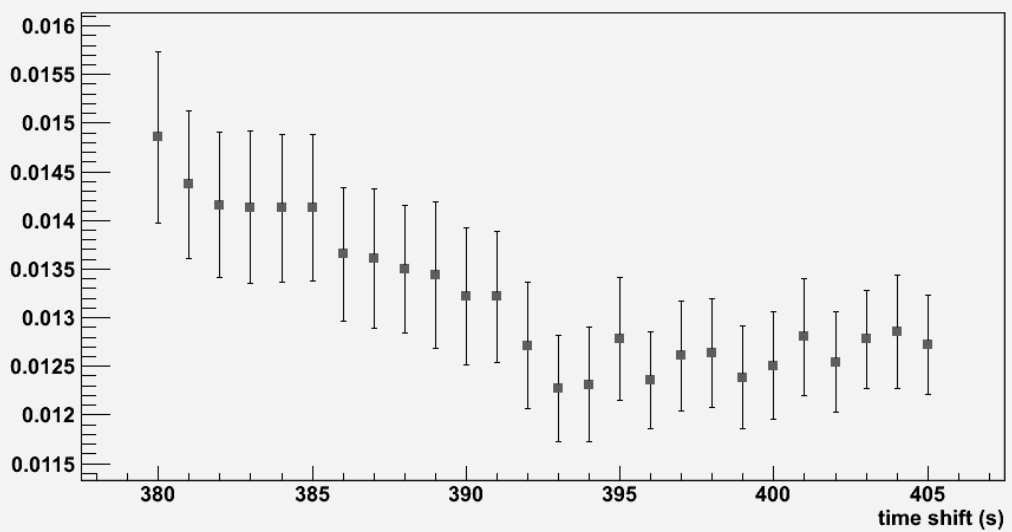
Integral vs time



Rapporto medio
Carica/Integrale al
variare di Δt
(380 \div 405 s)



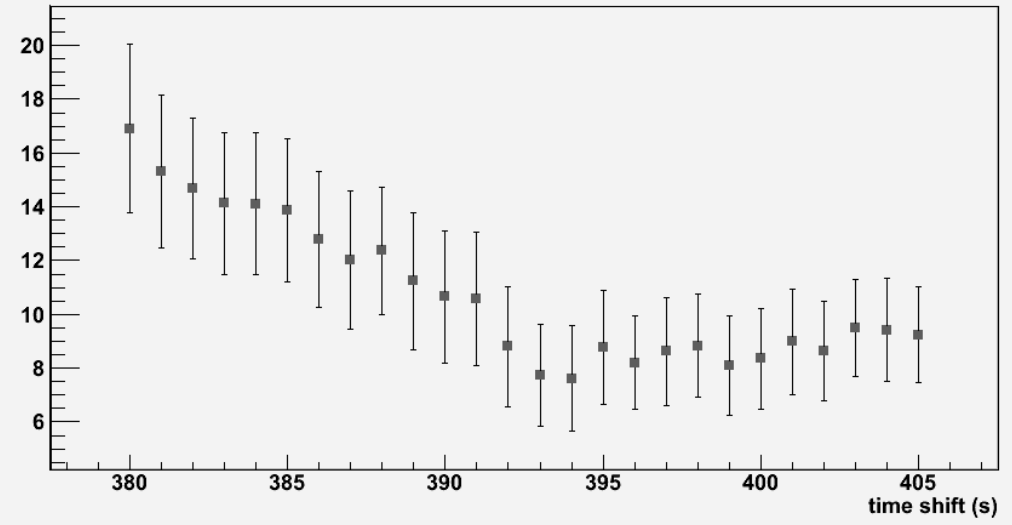
Rapporto Carica/Integrale



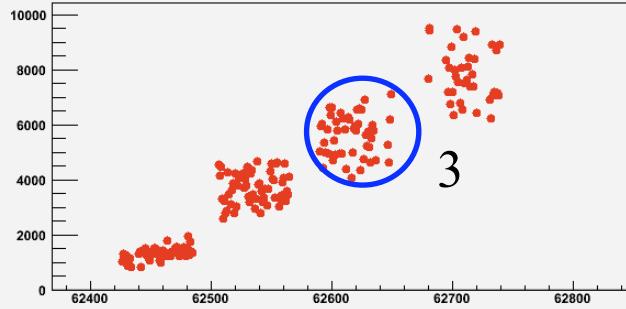
Differenza media
Carica - Integrale/100
al variare di Δt (380 \div
405)



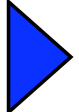
Differenza Carica-Integrale/100



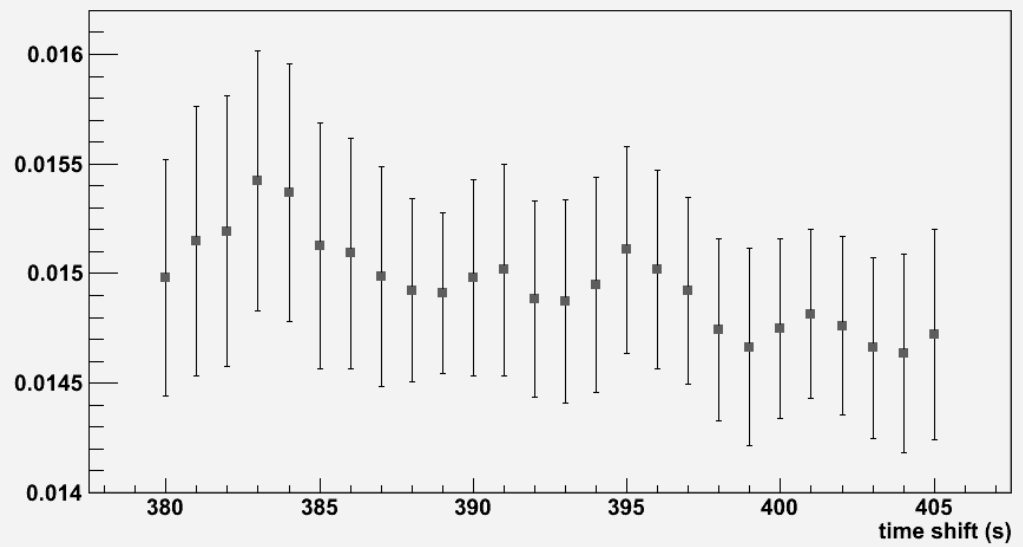
Integral vs time



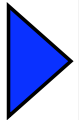
Rapporto medio
Carica/Integrale al
variare di Δt
(380 \div 405 s)



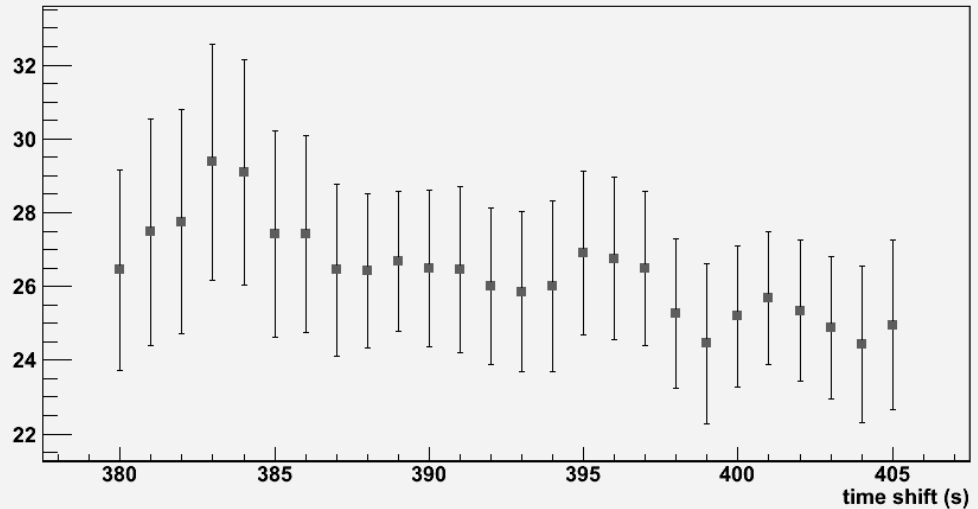
Rapporto Carica/Integrale



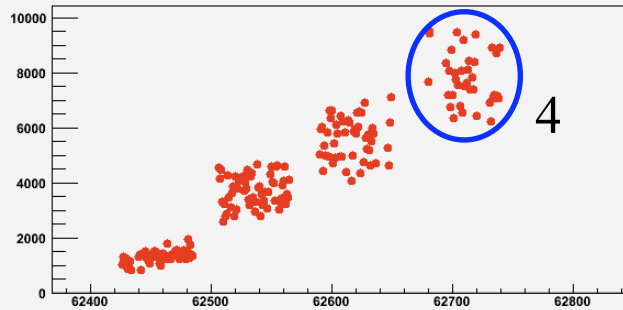
Differenza media
Carica - Integrale/100
al variare di Δt (380 \div
405)



Differenza Carica-Integrale/100



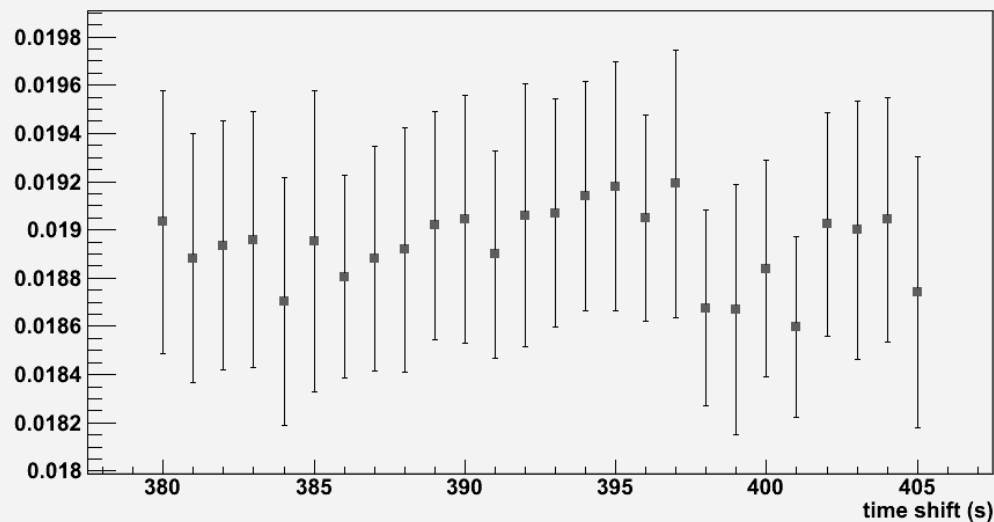
Integral vs time



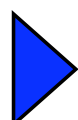
Rapporto medio
Carica/Integrale al
variare di Δt
(380 ÷ 405 s)



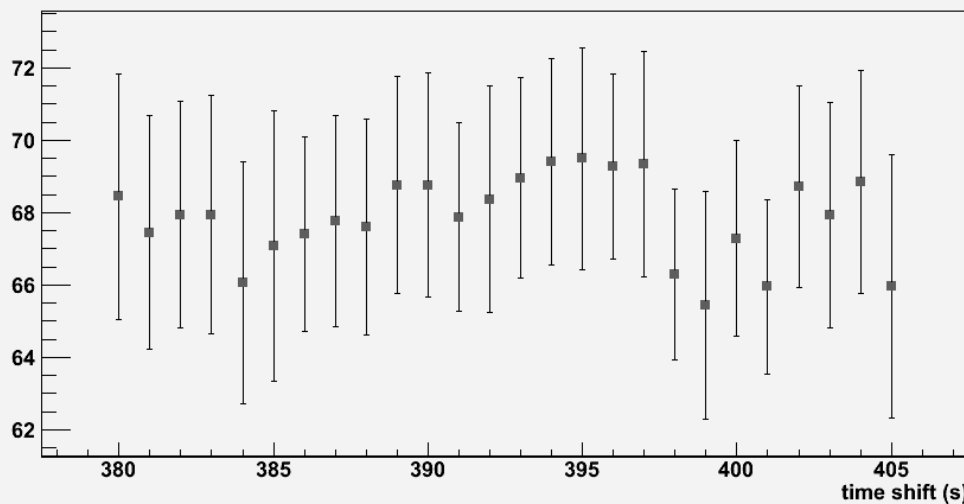
Rapporto Carica/Integrale



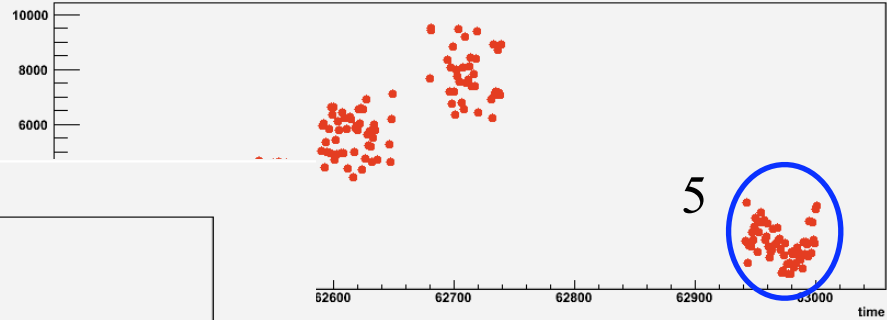
Differenza media
Carica - Integrale/100
al variare di Δt (380 ÷
405)



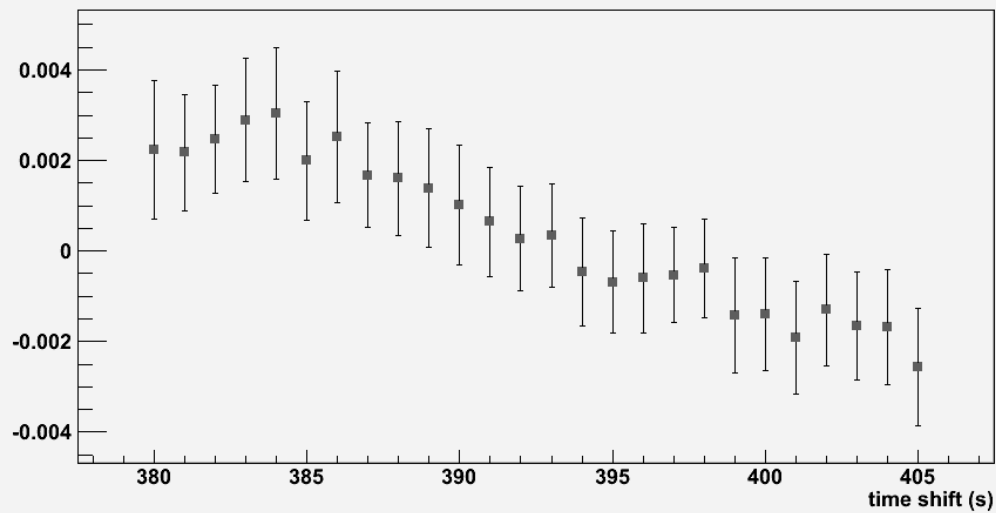
Differenza Carica-Integrale/100



Integral vs time

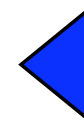
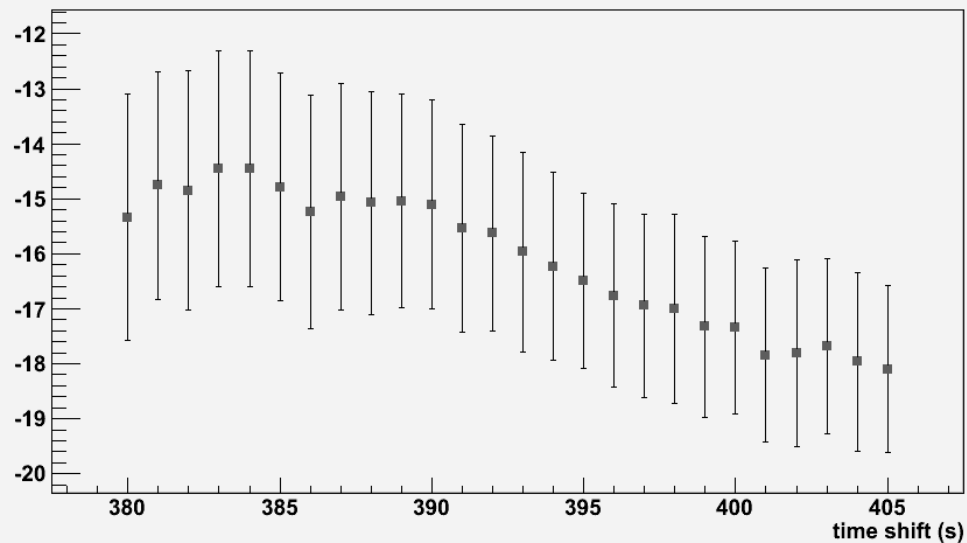


Rapporto Carica/Integrale

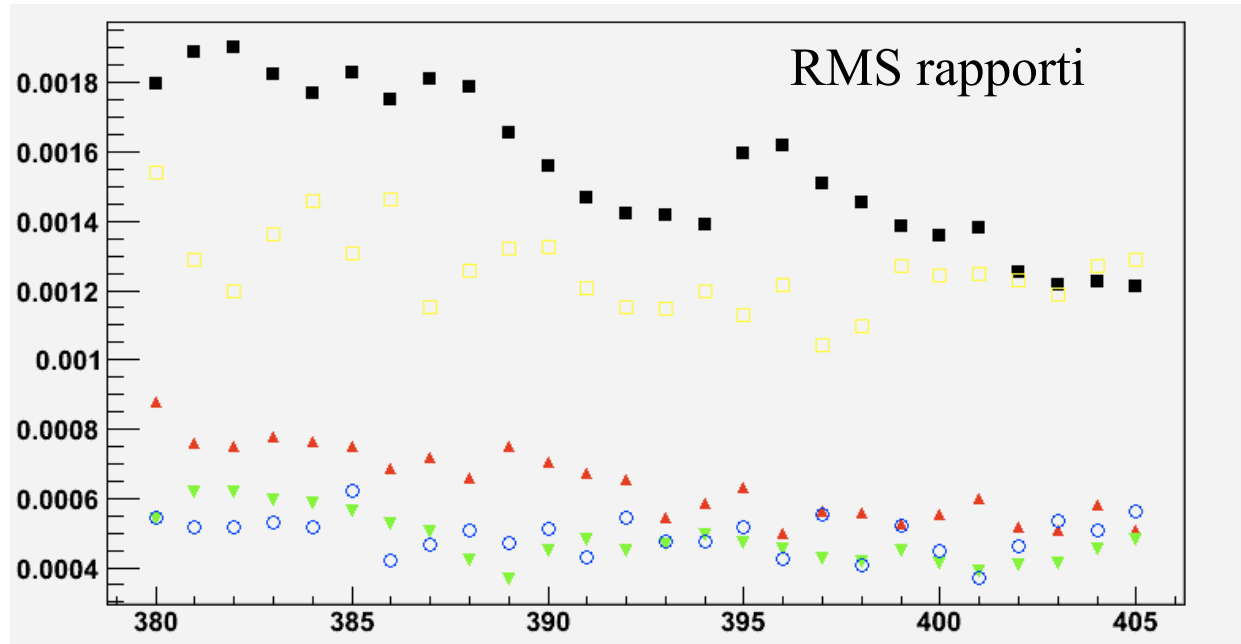


Rapporto medio
Carica/Integrale al
variare di Δt
(380 ÷ 405 s)

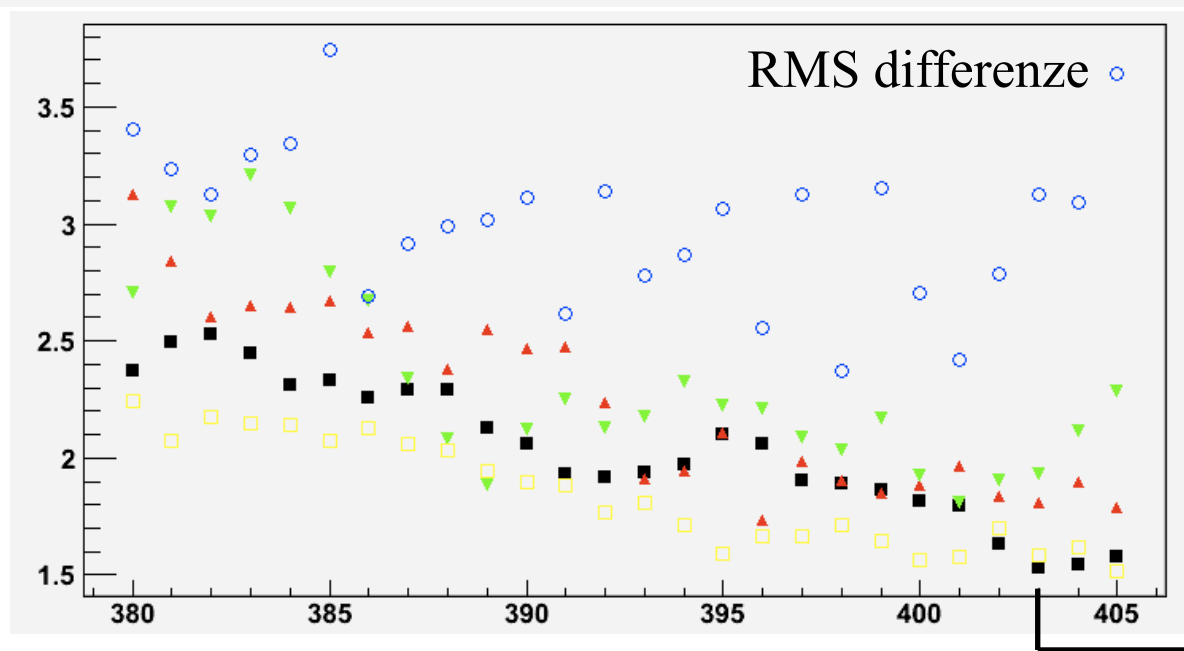
Differenza Carica-Integrale/100



Differenza media
Carica - Integrale/100
al variare di Δt
(380 ÷ 405 s)



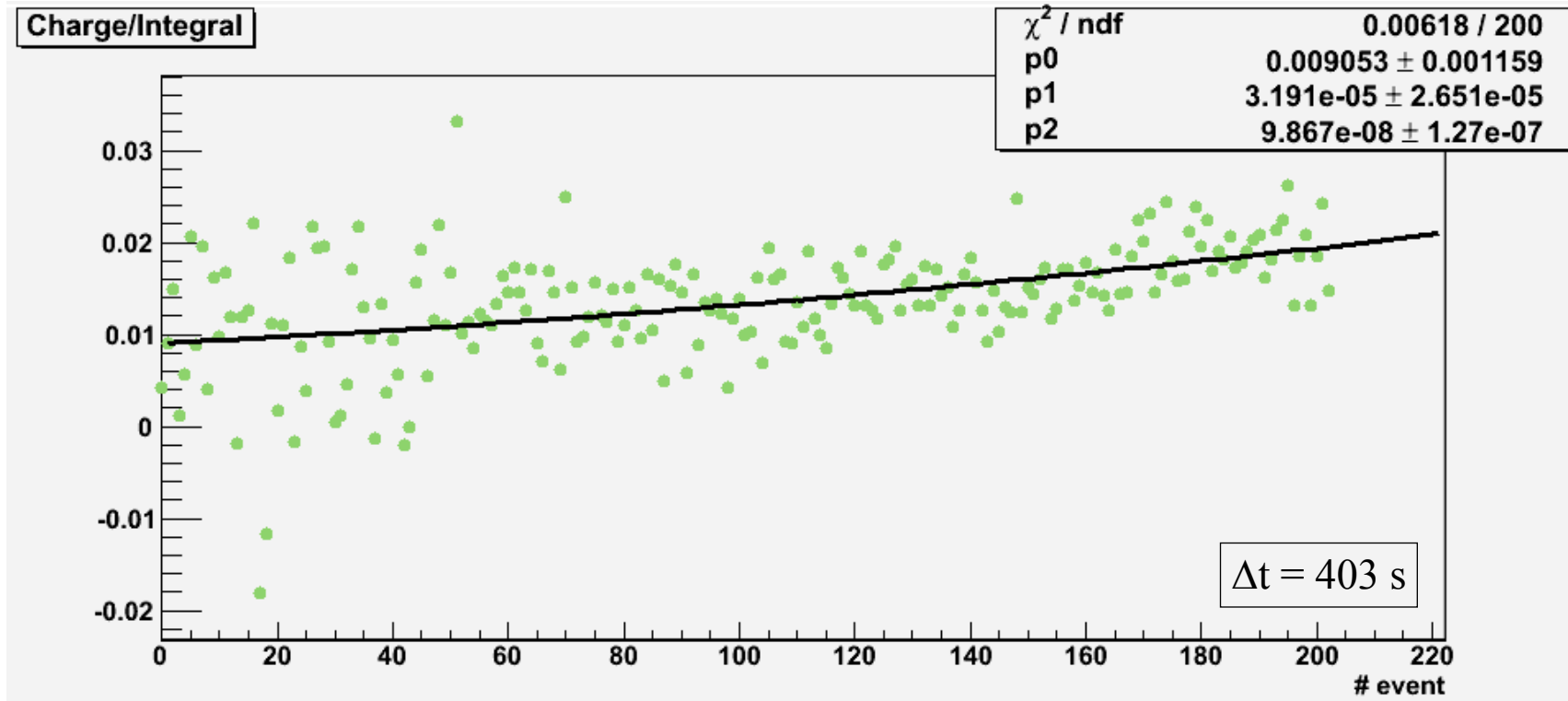
- 1
- ▲ 2
- ▼ 3
- 4
- 5



$\Delta t = 403 \text{ s ?}$



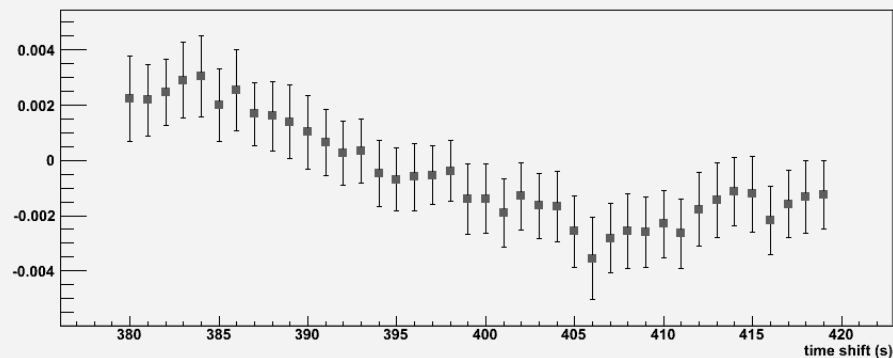
Plot dei primi 4 run (fit: polinomio di secondo grado)



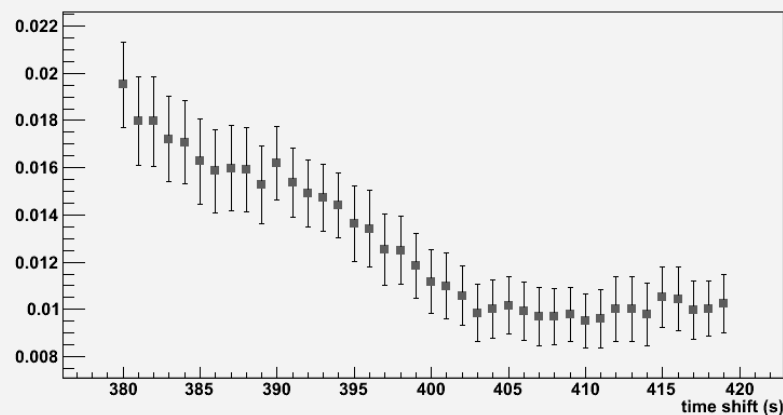
La saturazione modifica il coefficiente di calibrazione all'aumentare della carica

Aumentiamo
l'intervallo di Δt
analizzato
(380 ÷ 420 s)

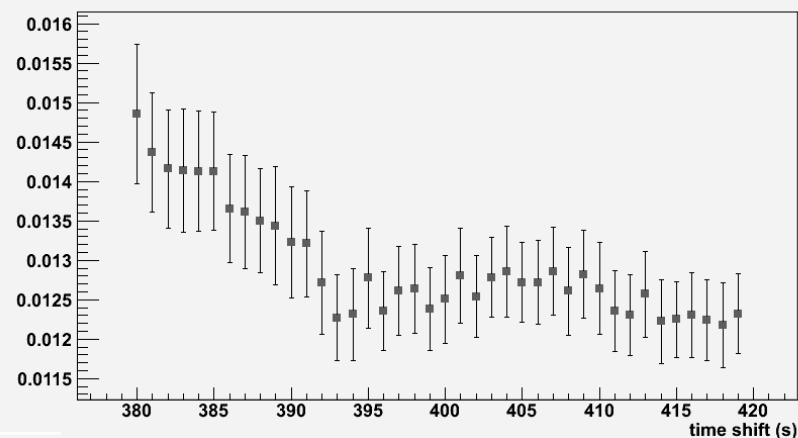
Rapporto Carica/Integrale (run 5)



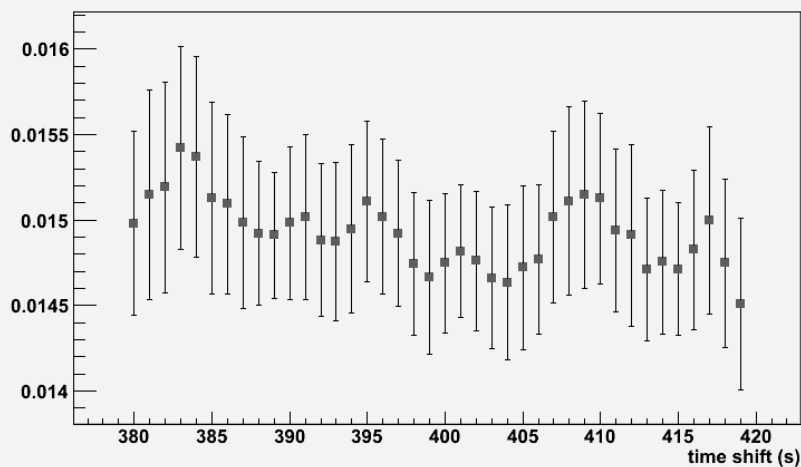
Rapporto Carica/Integrale (run 1)



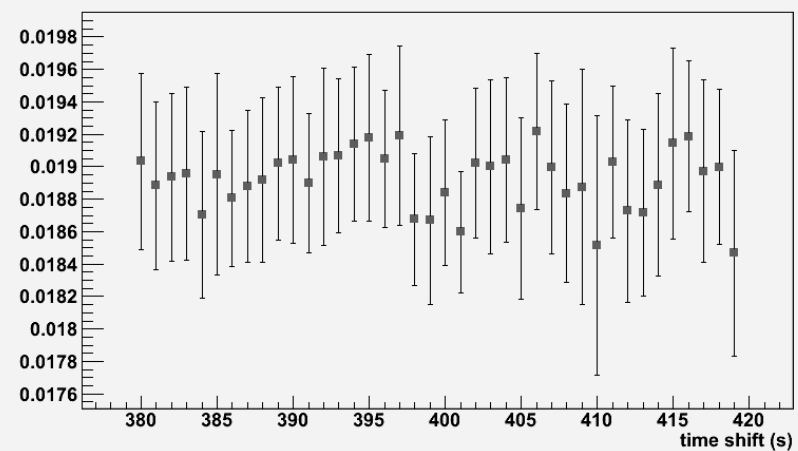
Rapporto Carica/Integrale (run 2)

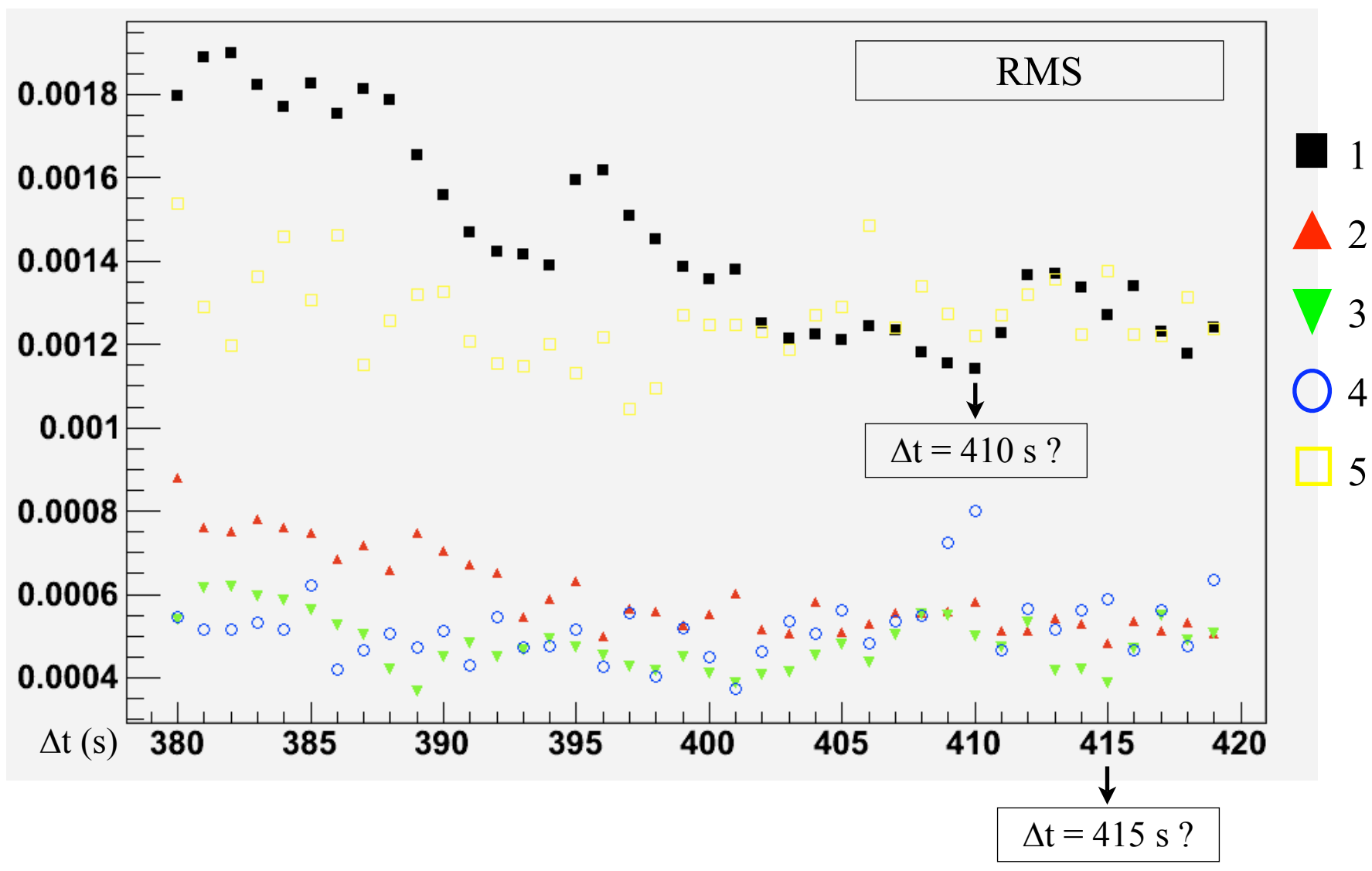


Rapporto Carica/Integrale (run 3)

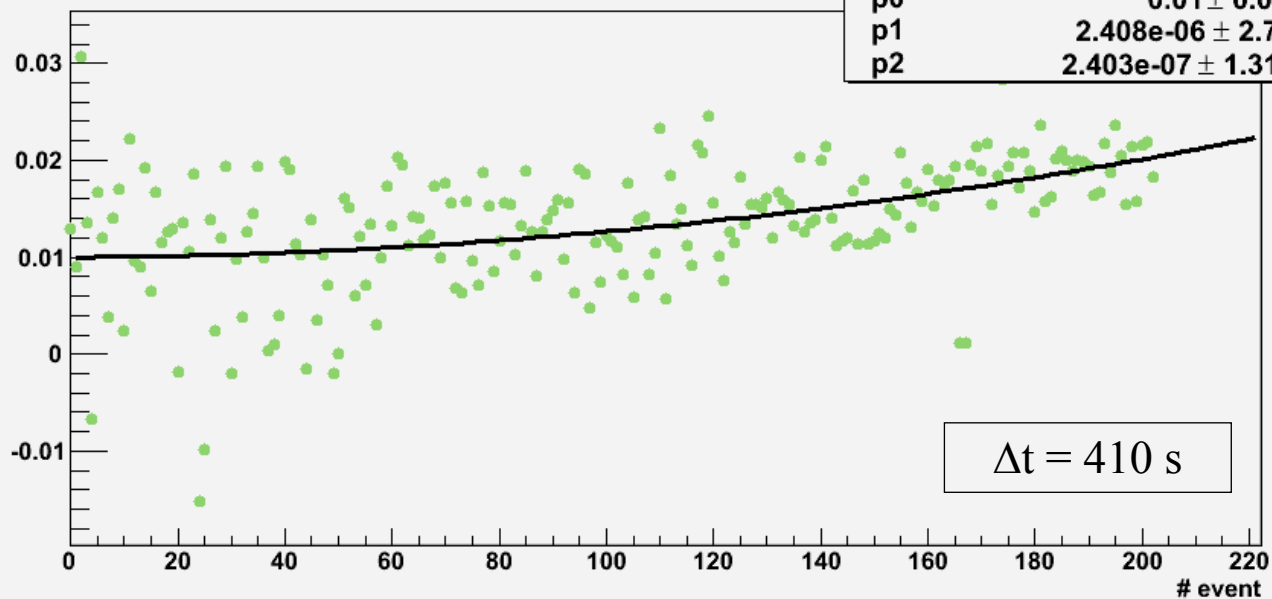


Rapporto Carica/Integrale (run 4)

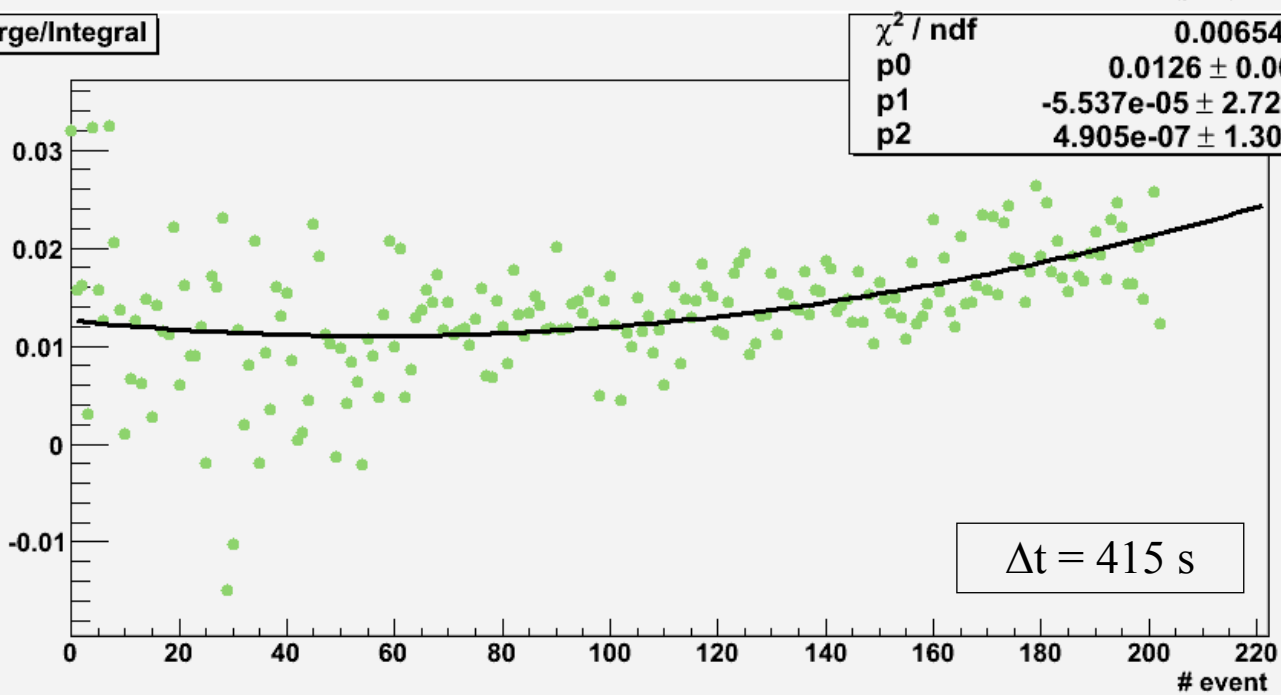




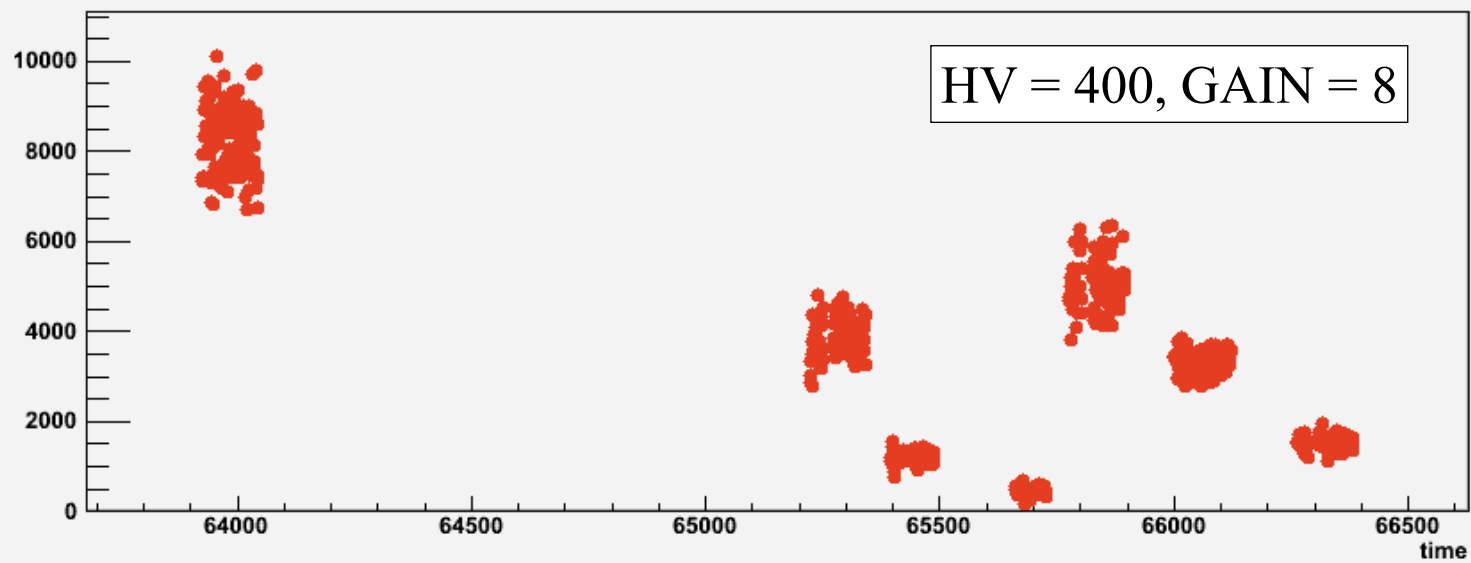
Charge/Integral



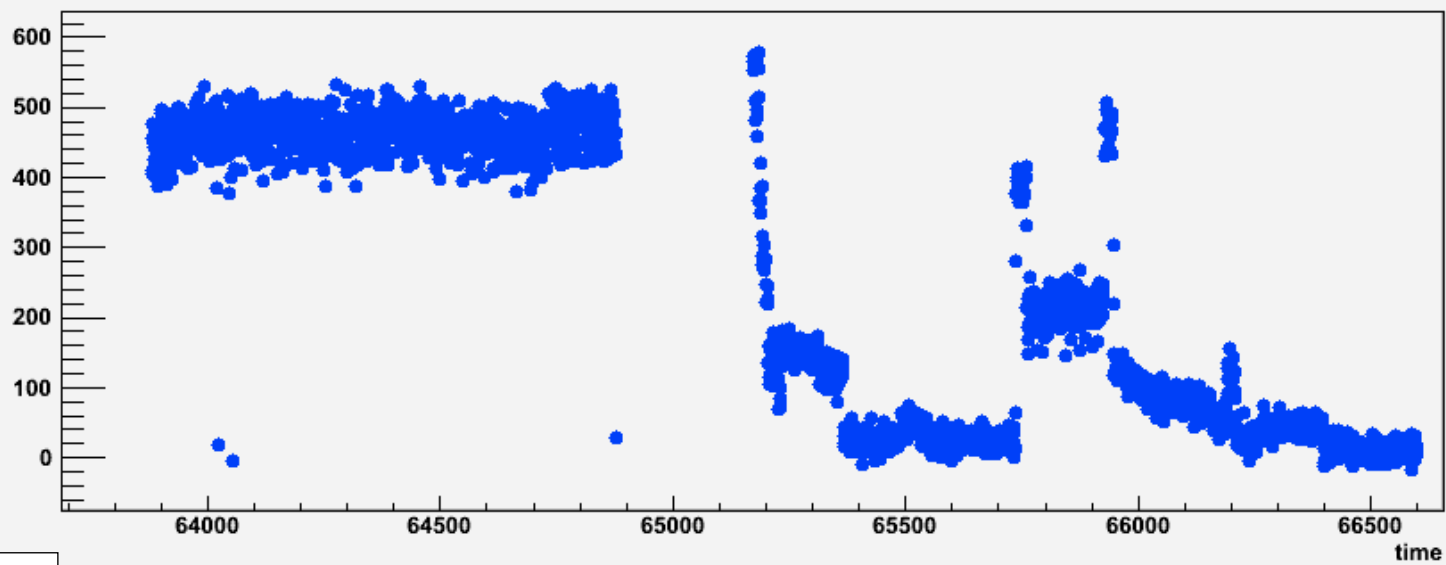
Charge/Integral



Integral vs time

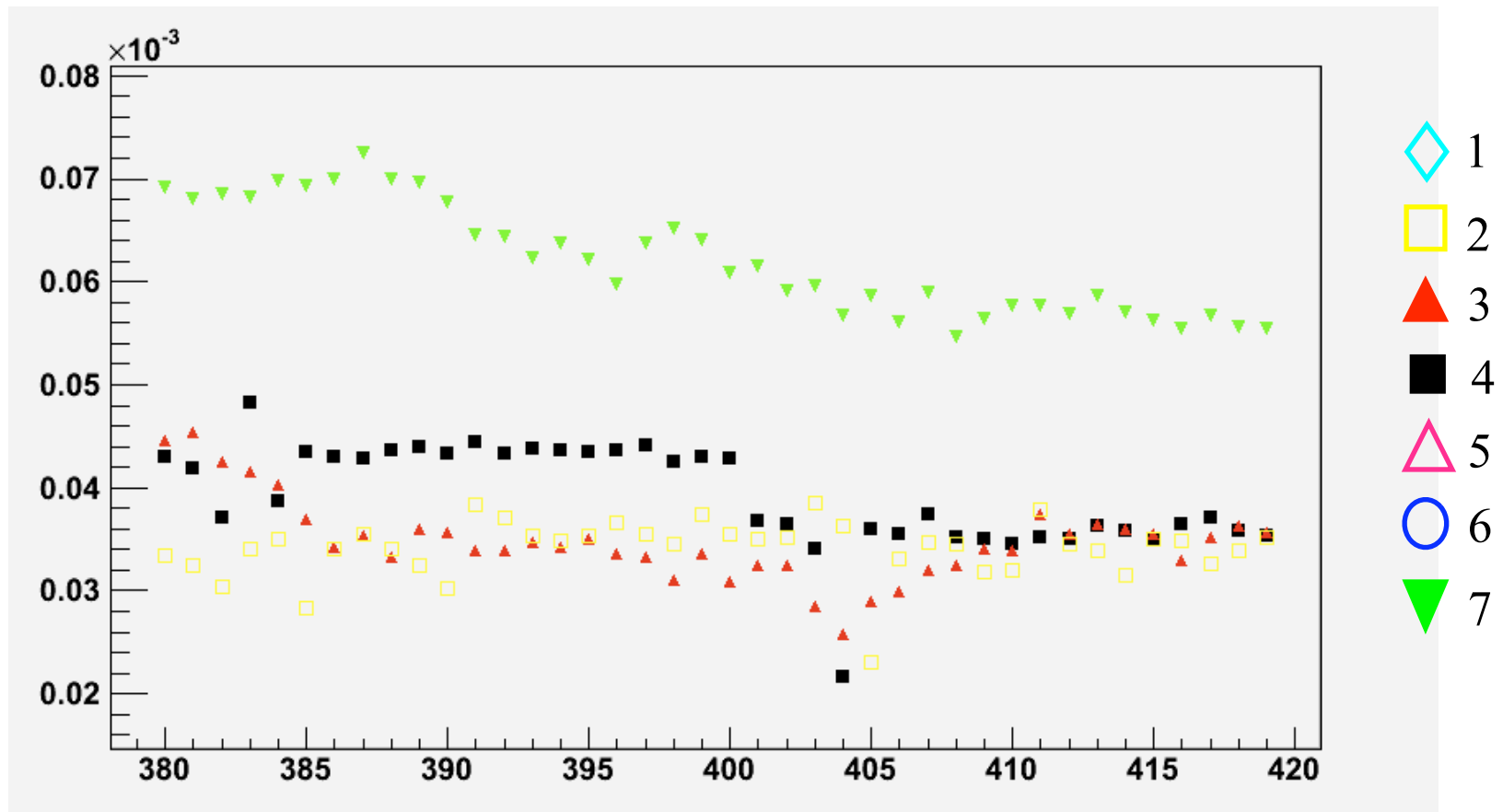


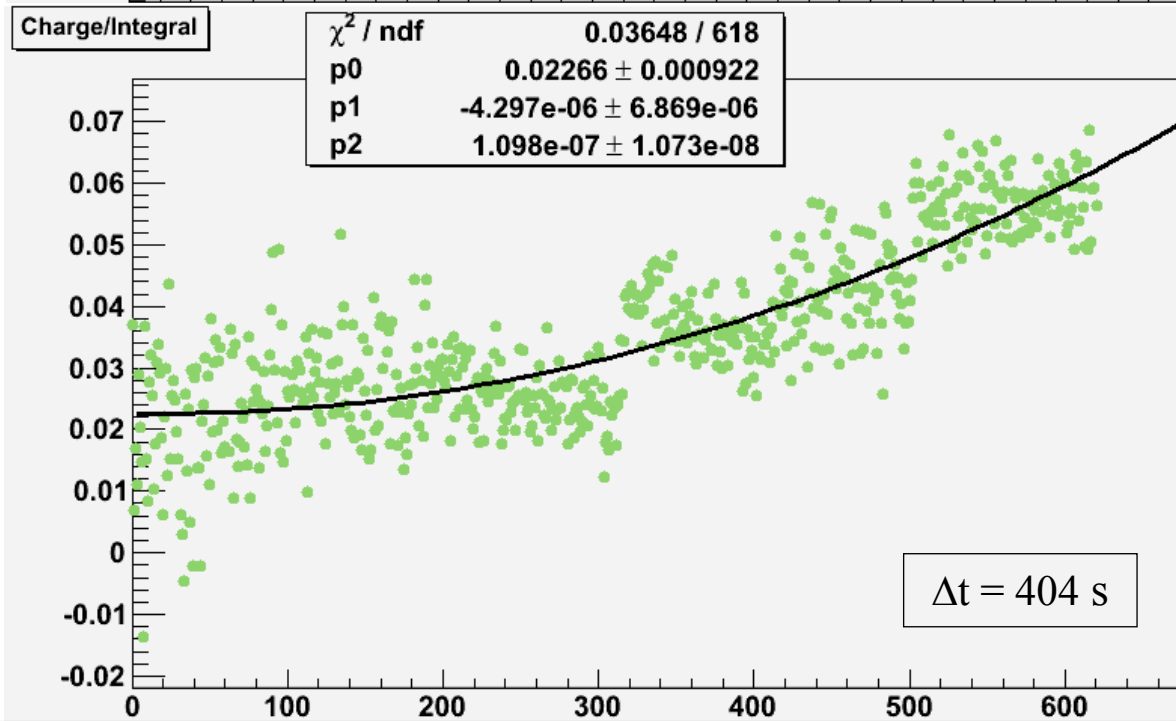
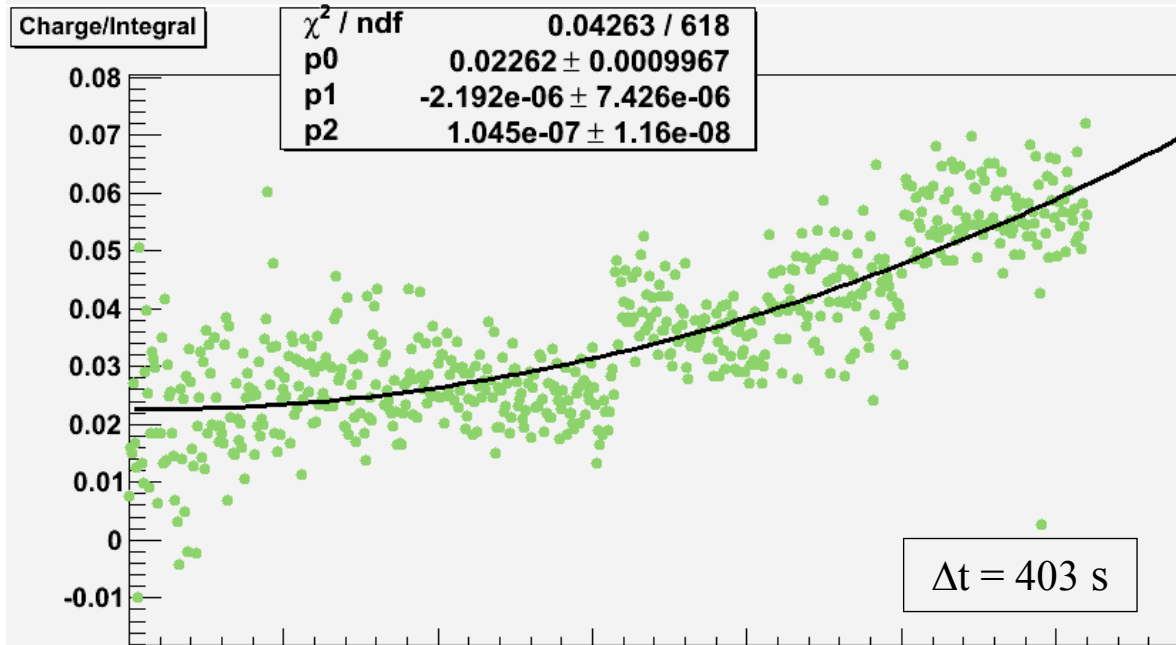
Charge vs time

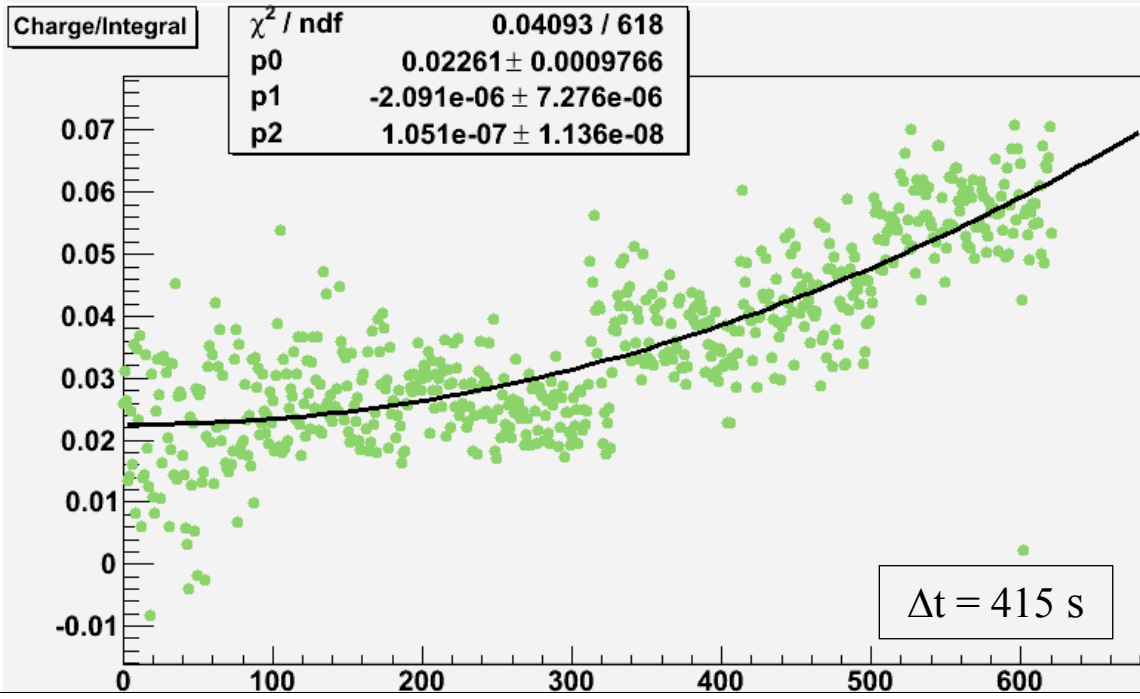
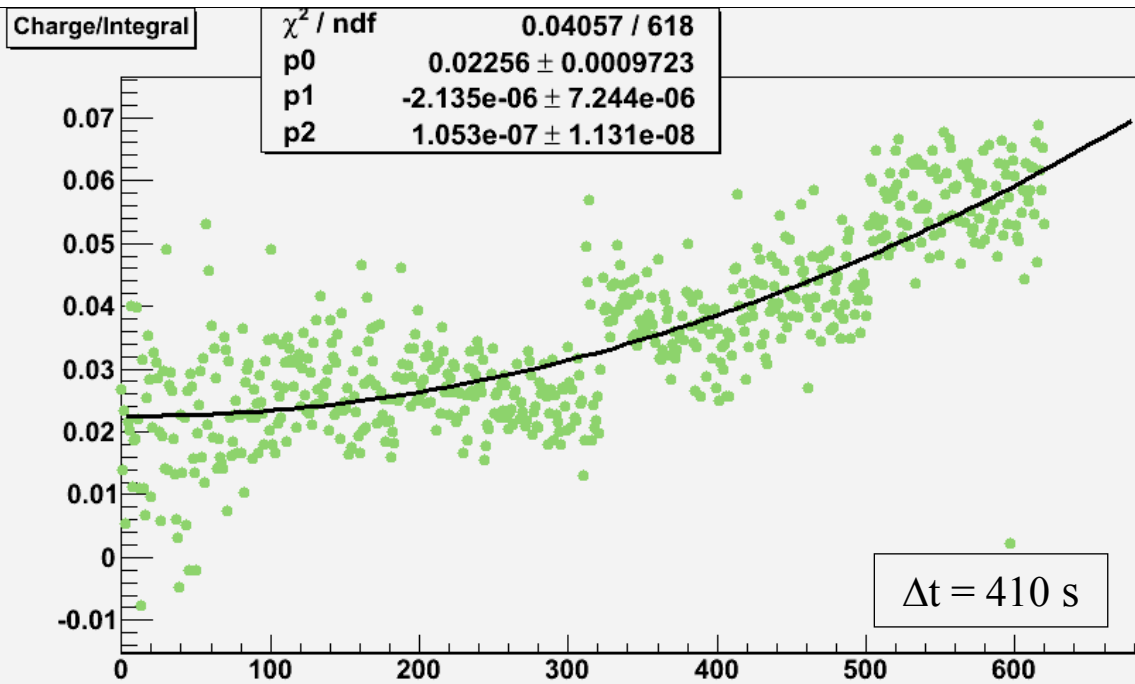


6 maggio

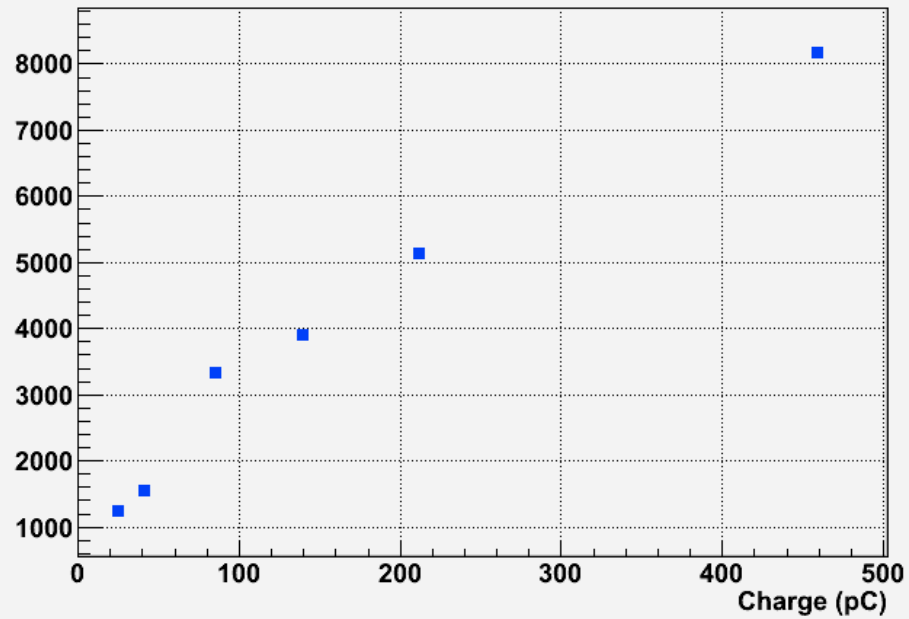
RMS del rapporto Charge/Integral al variare del Δt



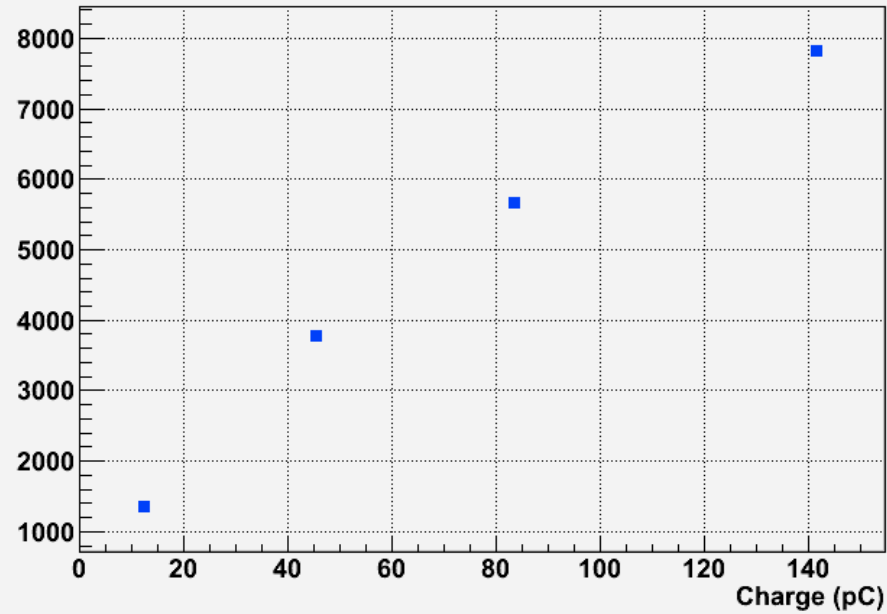




Integral vs Charge (HV = 400 V, gain = 8)



Integral vs Charge (HV = 500 V, gain = 4)



Utilizzando i valori
medi di integrale e
carica per ciascun run