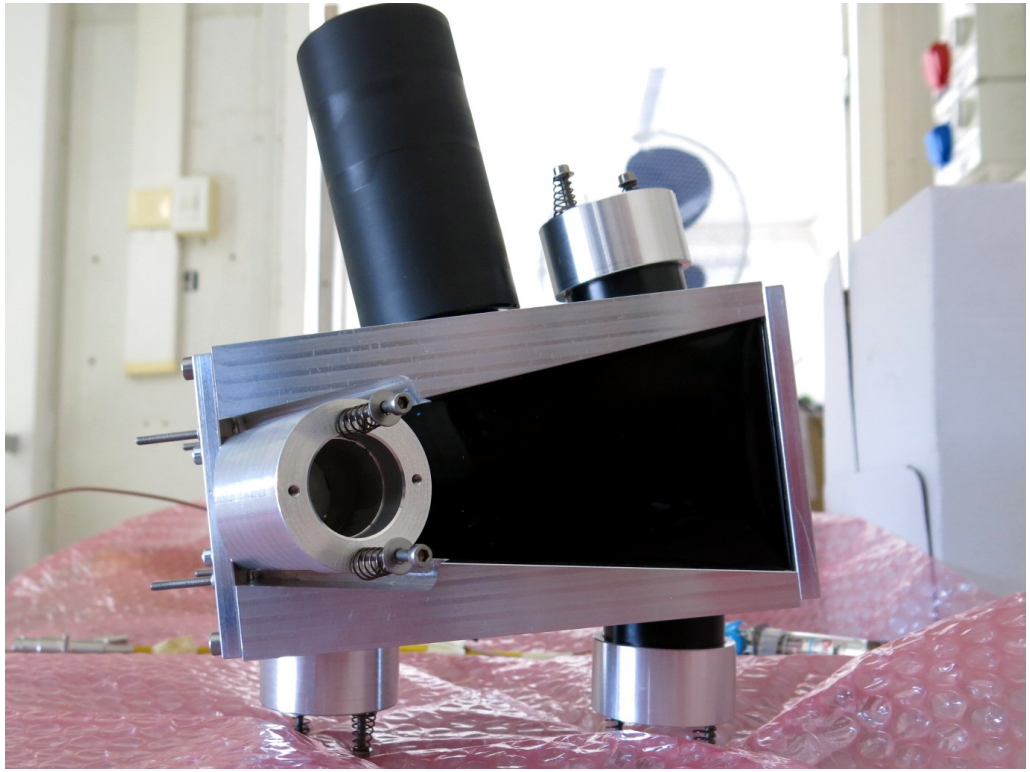
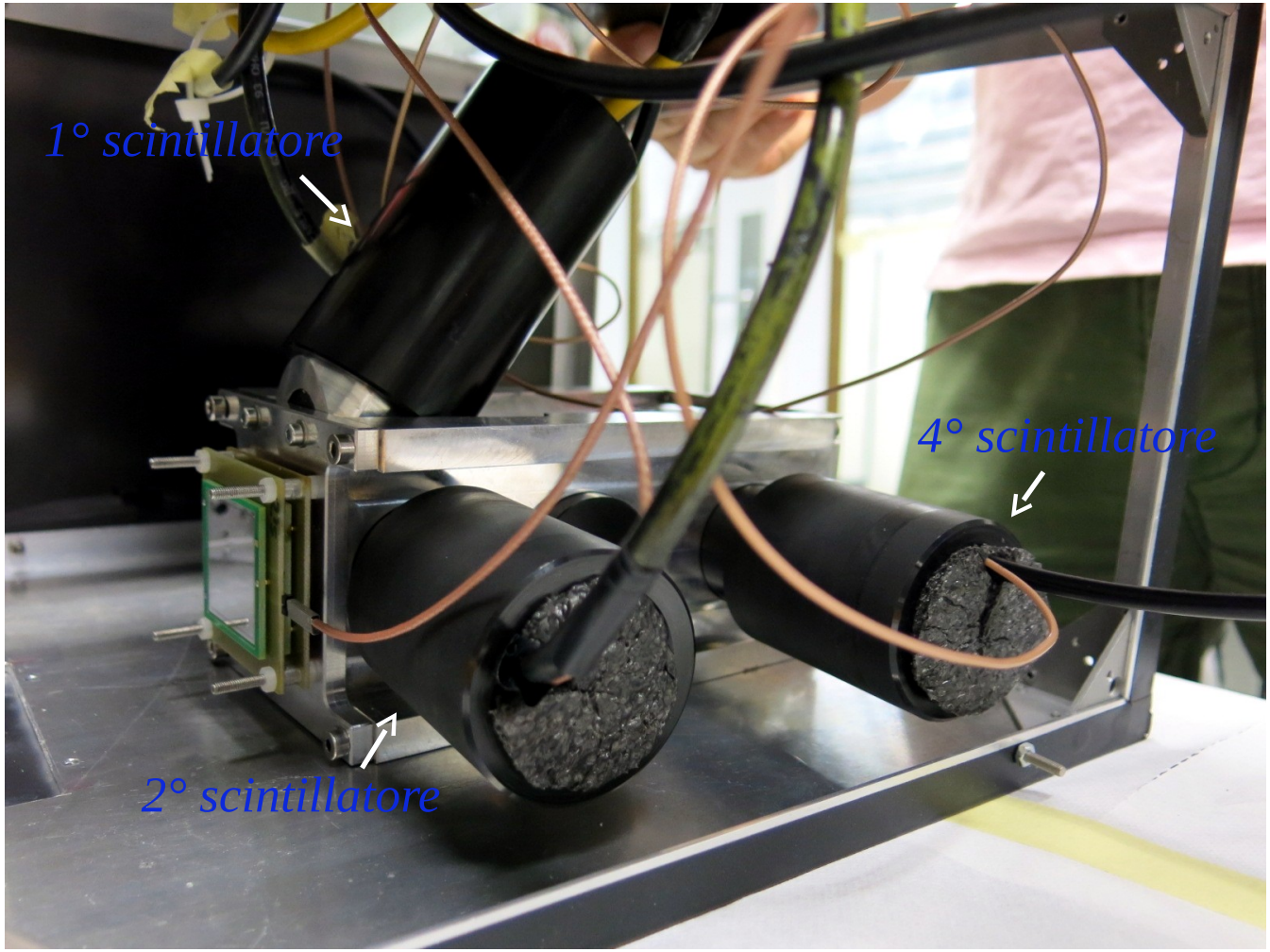
PRT:

misura e analisi dati

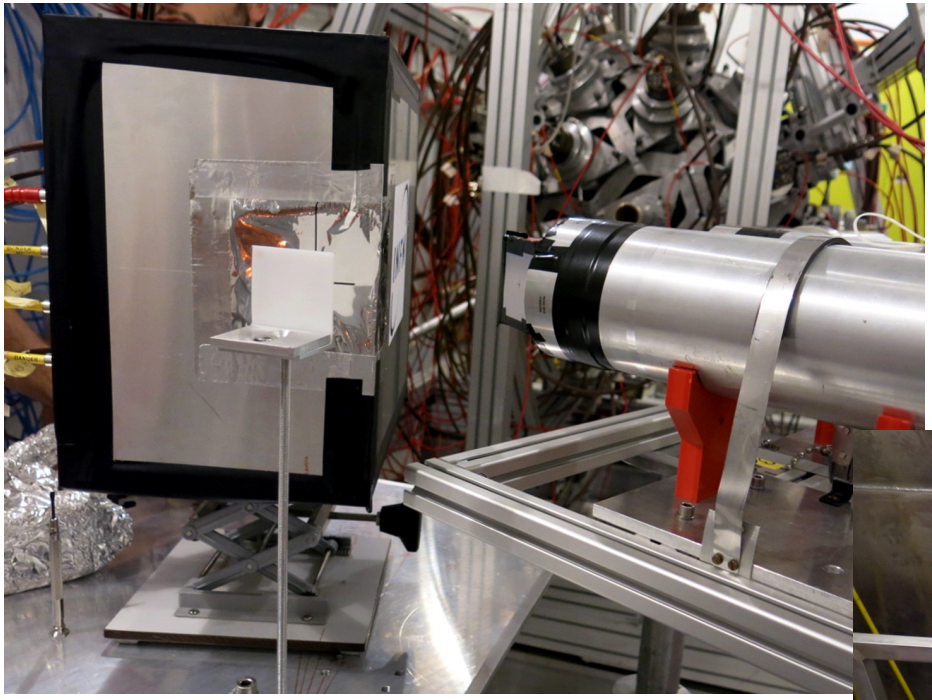
Set-up sperimentale

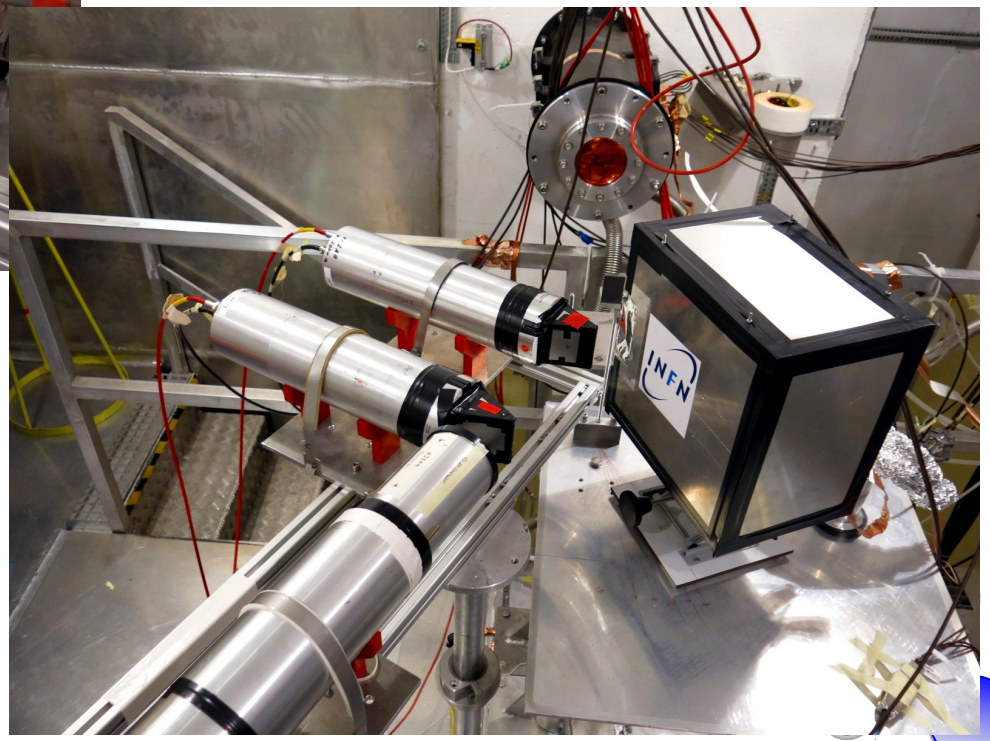


Set-up sperimentale



Set-up sperimentale

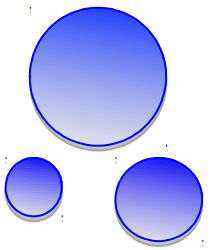




Configurazioni testate

- *Tensioni applicate agli scintillatori: 800 V, 680 V, 700 V, 660 V*

	Bersaglio	*# protoni*
20°	*2 mm PE*	***1,2 10^{17}***
	1 mm Carbonio	***2,9 10^{16}***
	10 mm PE	***1,8 10^{17}***
	5 mm Carbonio	***1,5 10^{17}***
	Vuoto	***5,8 10^{16}***
30°	*2 mm PE*	***9,8 10^{16}***
	10 mm PE	***1,1 10^{17}***
	5 mm Carbonio	***6,1 10^{16}***
	4 mm PE	***2,5 10^{16}***
	Vuoto	***1,9 10^{16}***



Configurazioni testate

- *Tutte le tensioni a 900 V:*

  20° con 2 mm di PE ⇨ ***9 10^{16} protoni***

- *Tensioni +20% : 960 V, 816 V, 840 V, 792 V:*

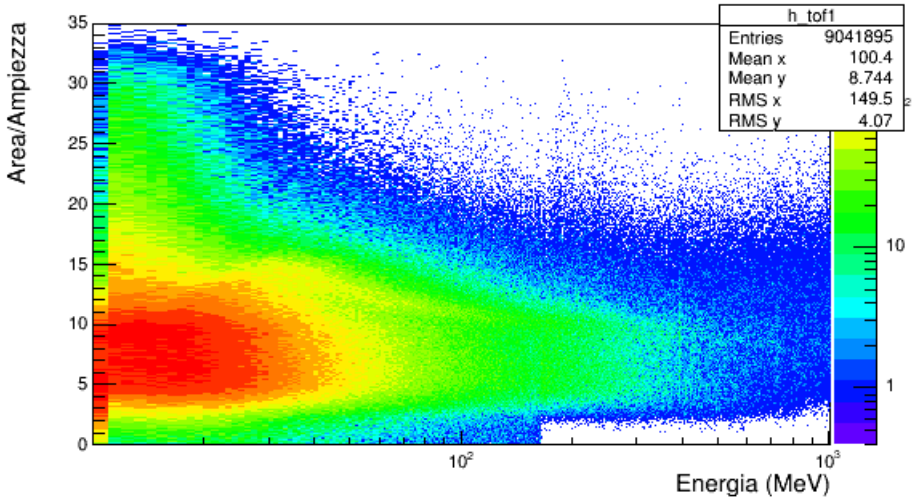
  20° con 10 mm di PE ⇨ ***1,4 10^{16} protoni***

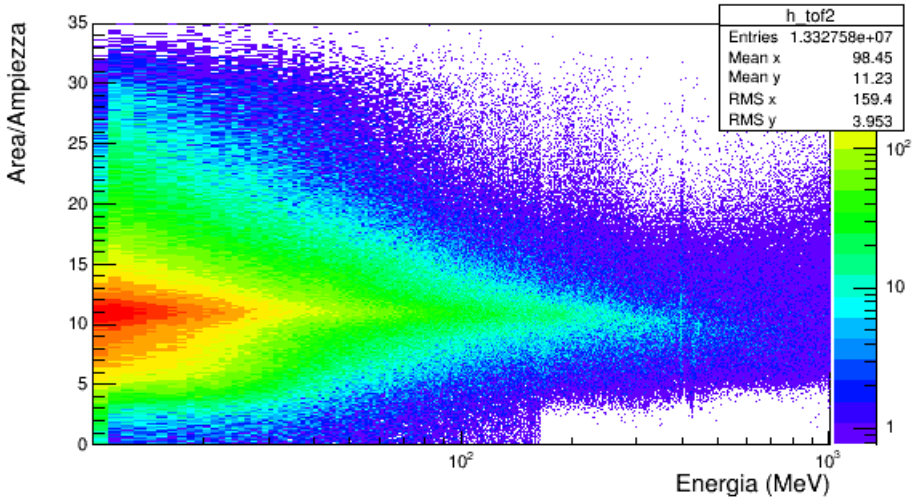
- *Finestra carta nera:*

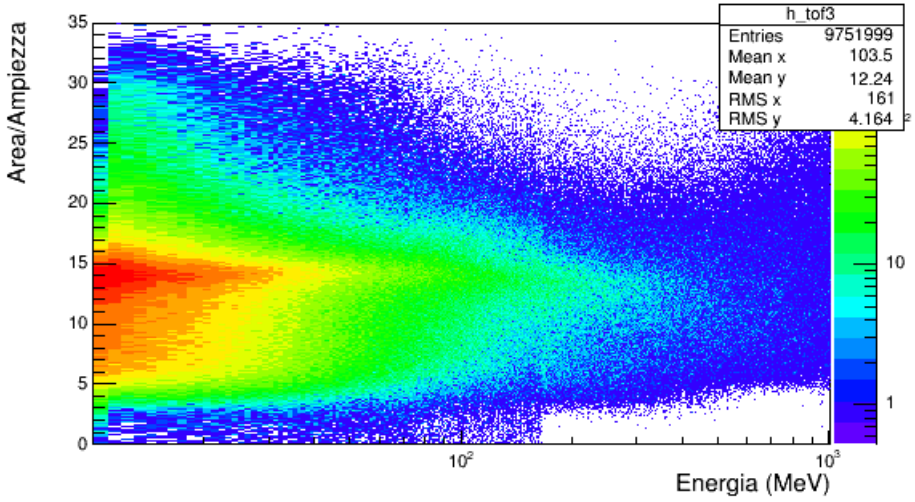
  20 ° con 10 mm di PE ⇨ ***2,4 10^{16} protoni***

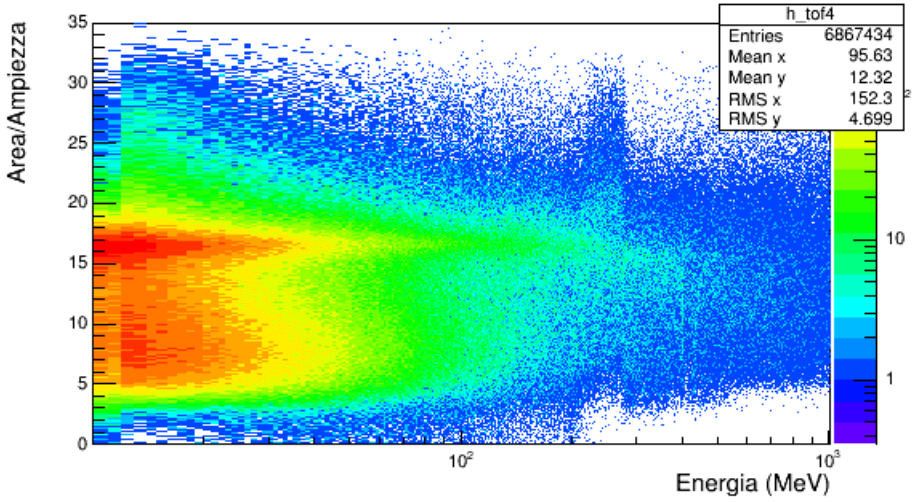
- *Calibrazioni con ^{60}Co:* ***8,5 10^{3} bunches***

Pulse Shape Analysis

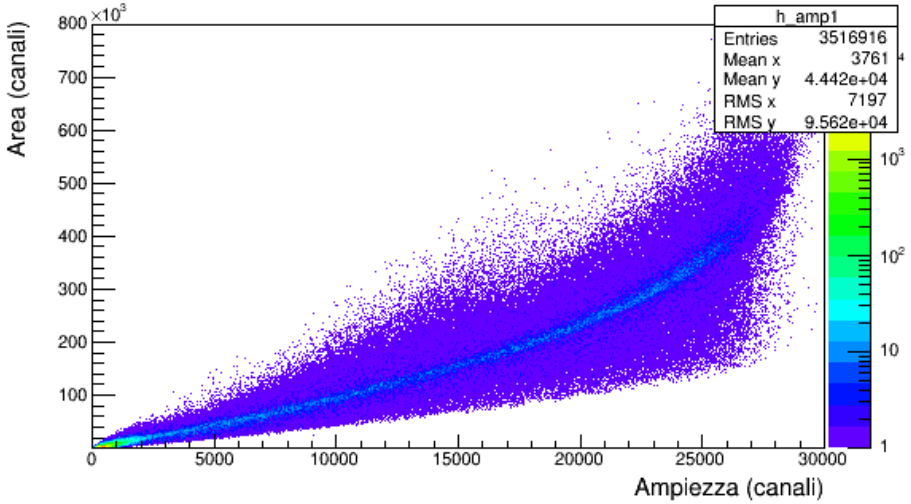


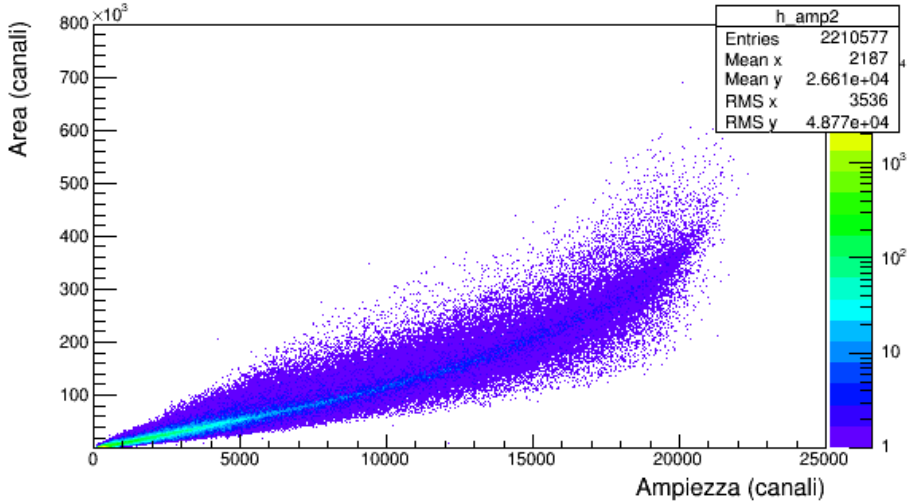


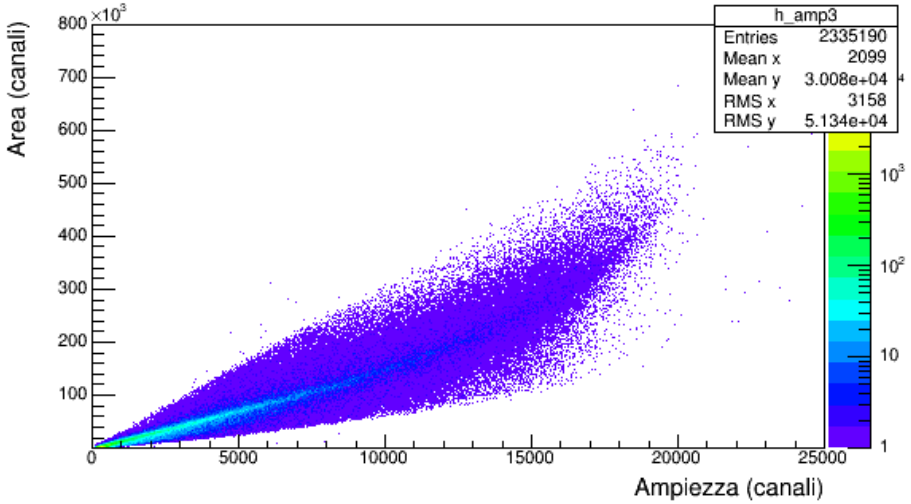


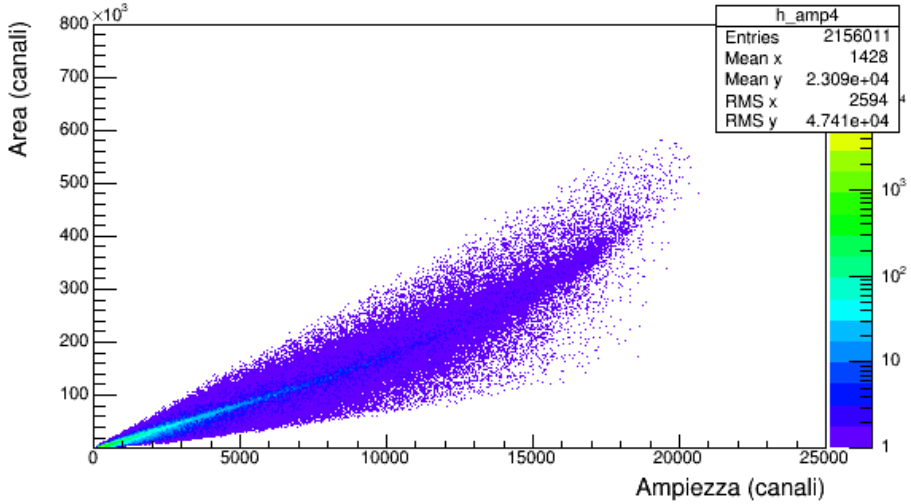


Pulse Shape Analysis

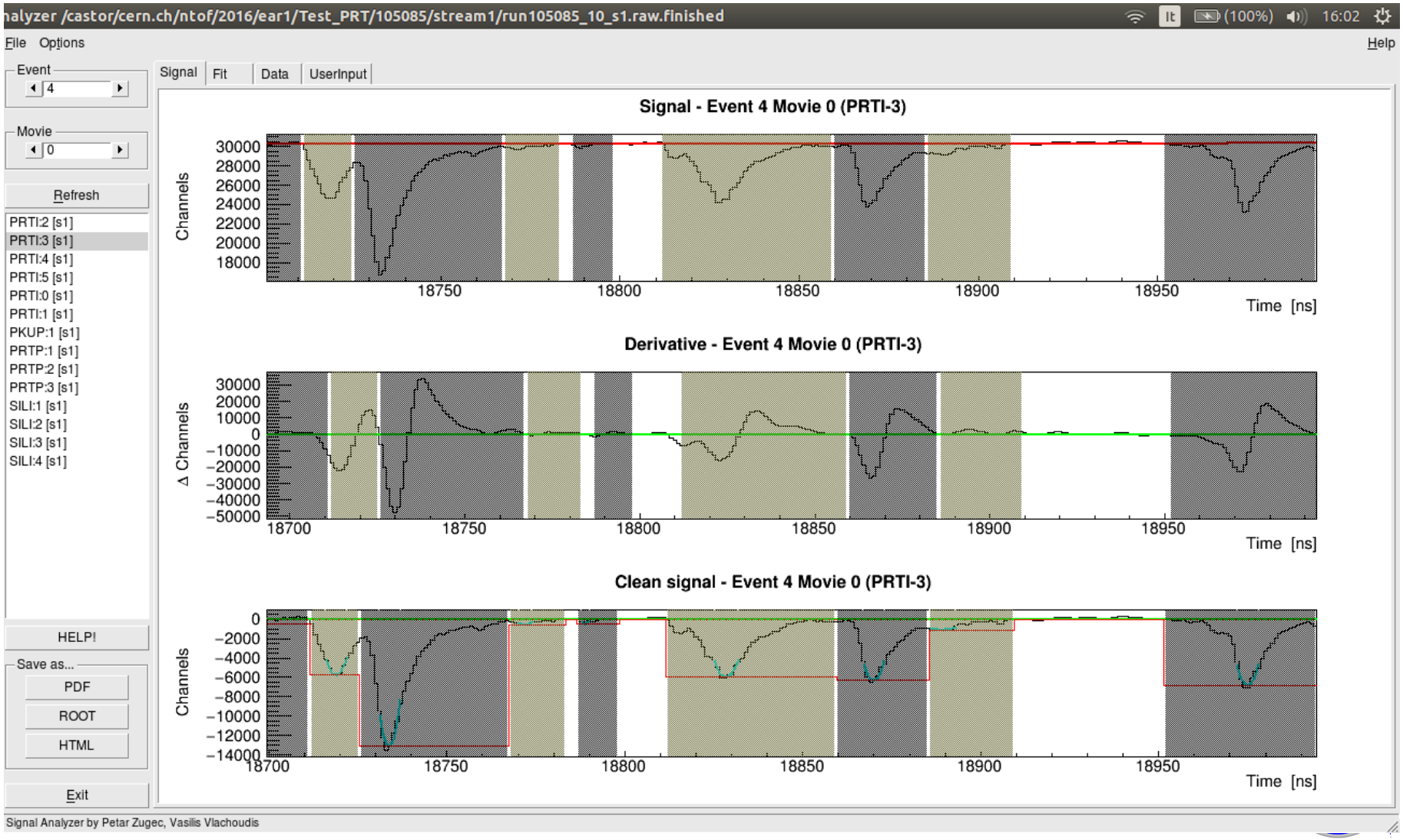




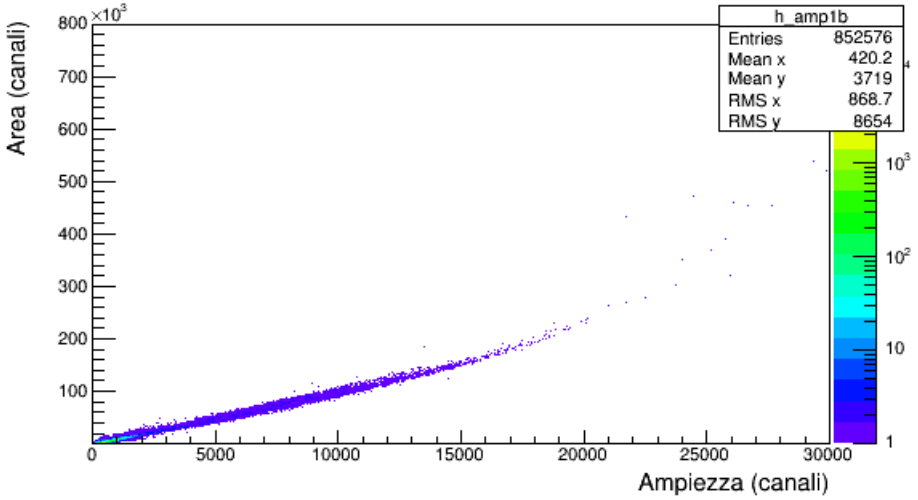


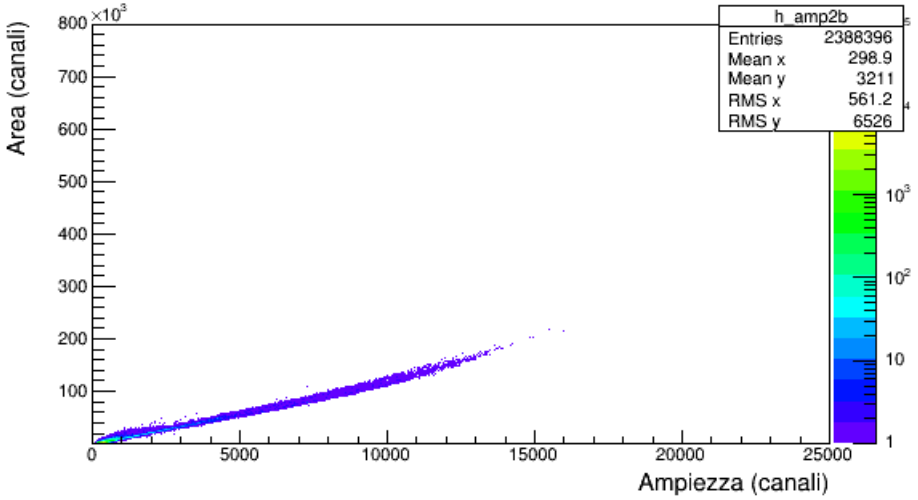


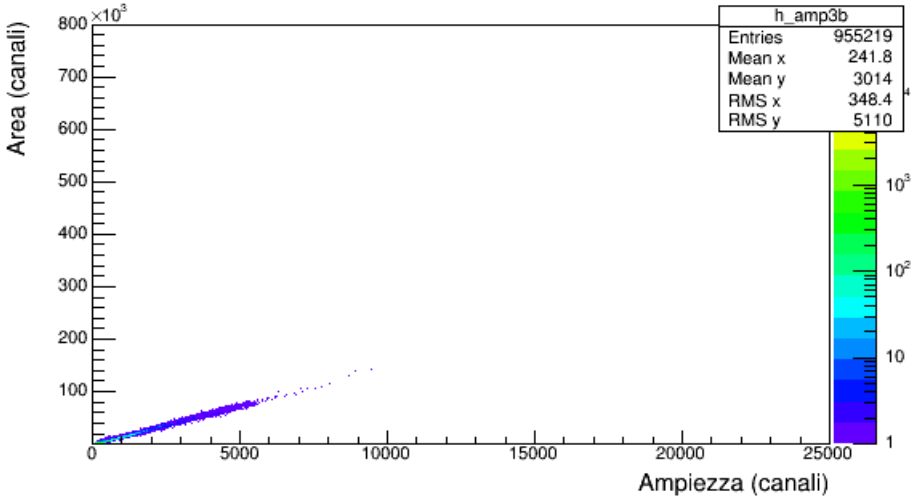
Pulse Shape Analysis

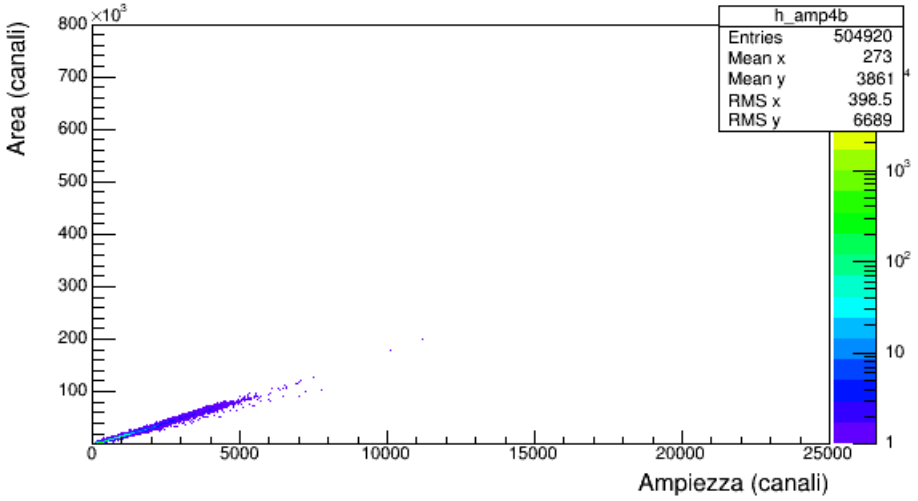


Pulse Shape Analysis





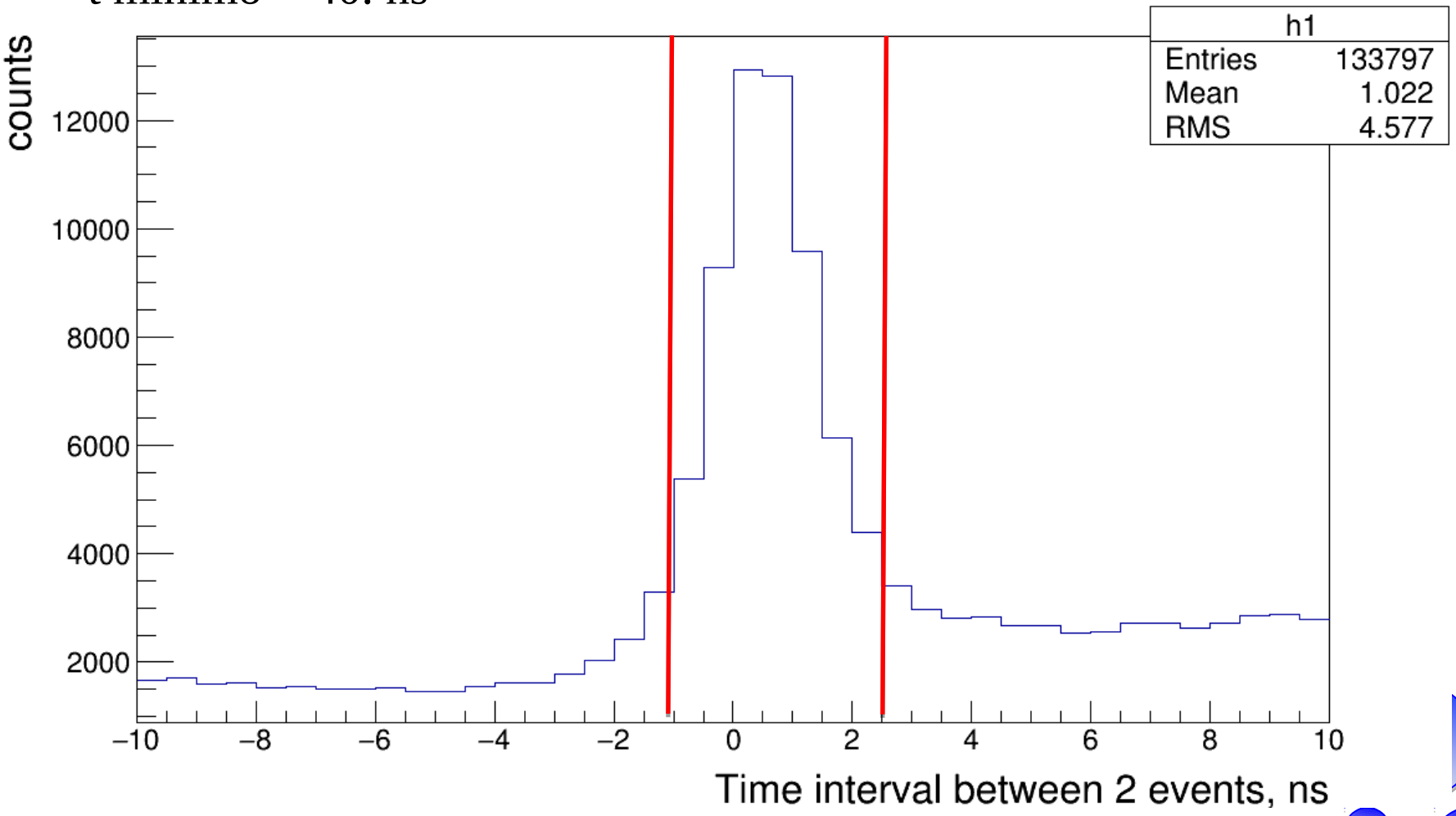




Analisi dati

Ampiezza minima = 3000.

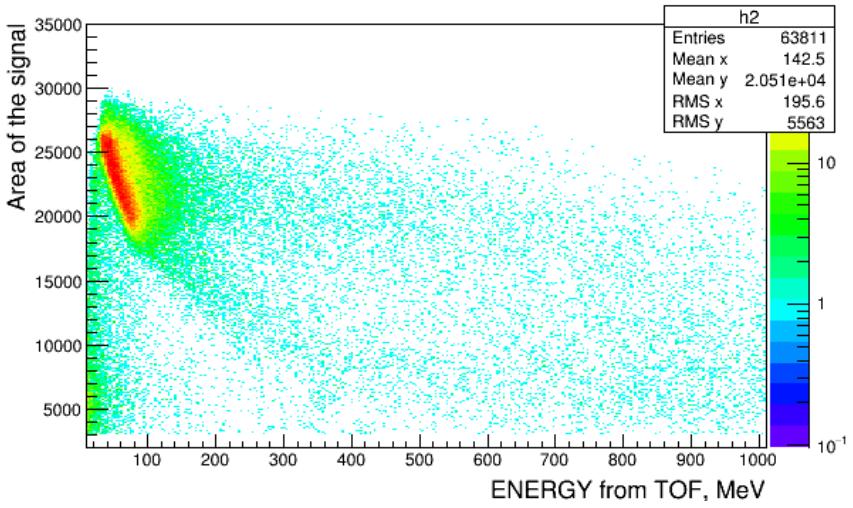
t minimo = 40. ns



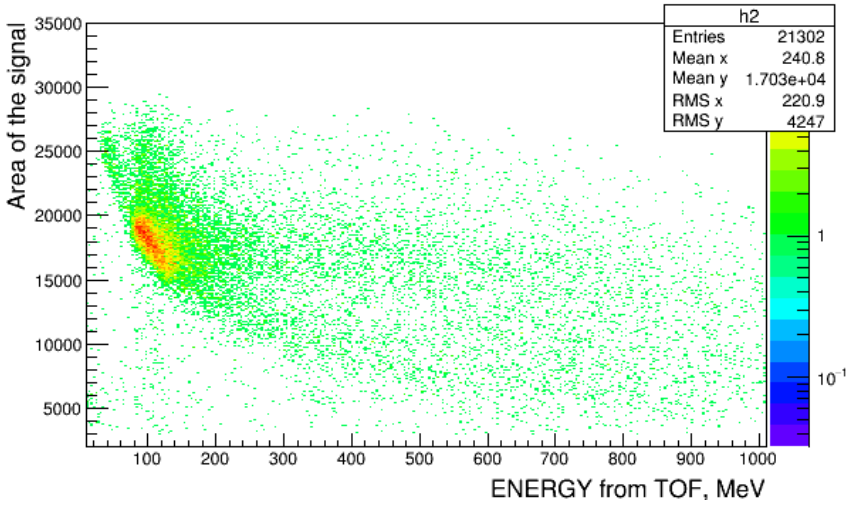
Analisi dati – Polietilene 10 mm

Scintillatore 1

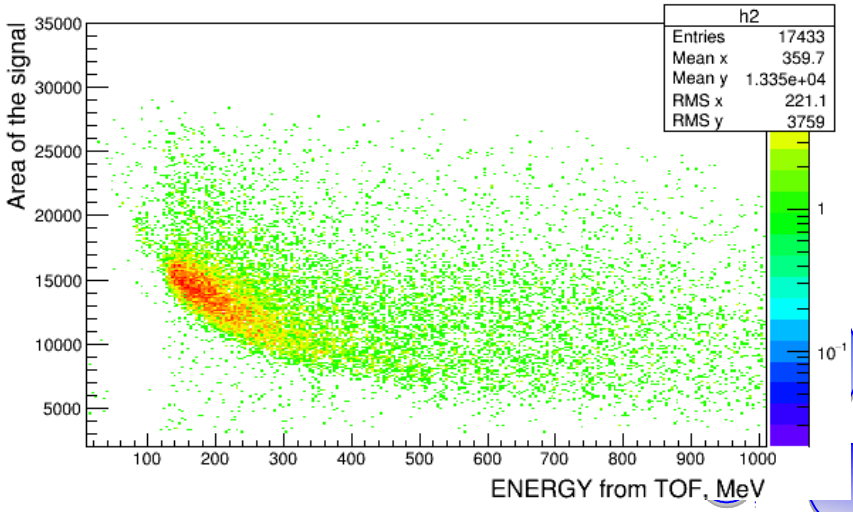
Coincidenza 1-2



Coincidenza 1-2-3



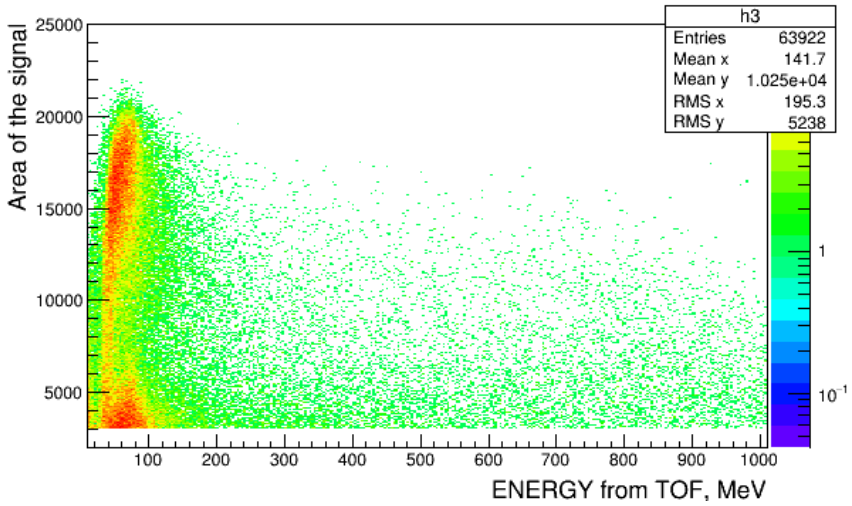
Coincidenza 1-2-3-4



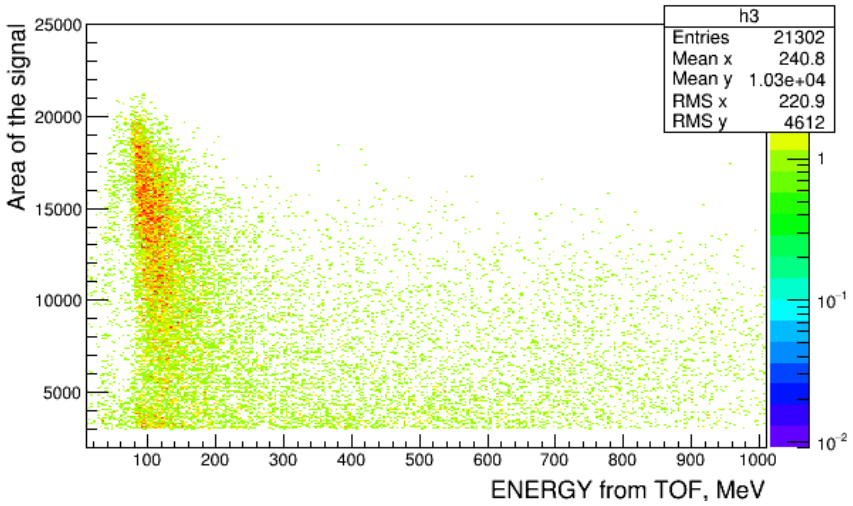
Analisi dati – Polietilene 10 mm

Scintillatore 2

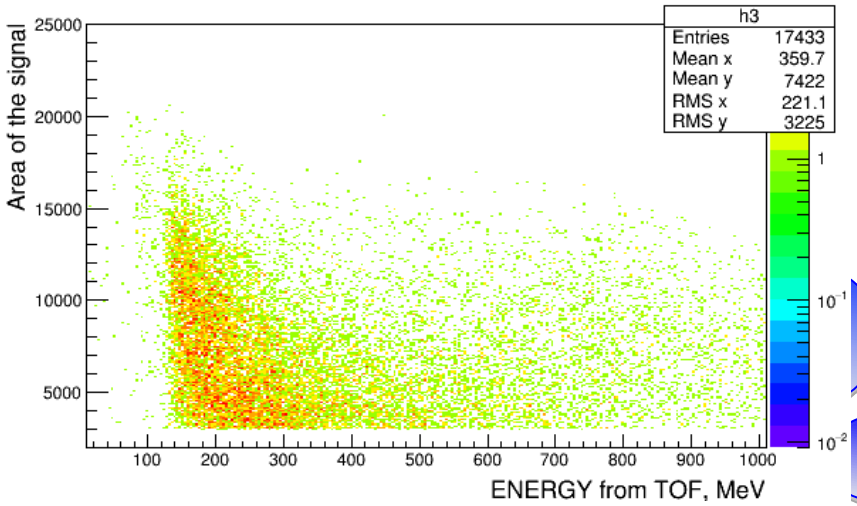
Coincidenza 1-2



Coincidenza 1-2-3



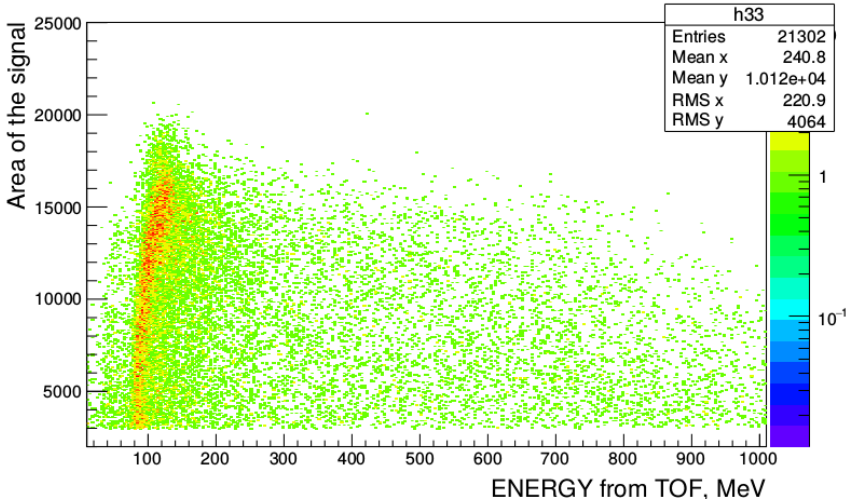
Coincidenza 1-2-3-4



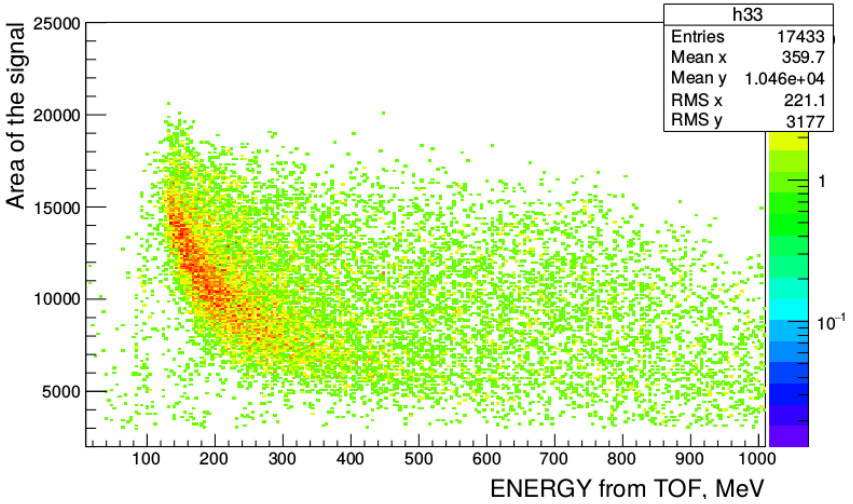
Analisi dati – Polietilene 10 mm

Scintillatore 3

Coincidenza 1-2-3



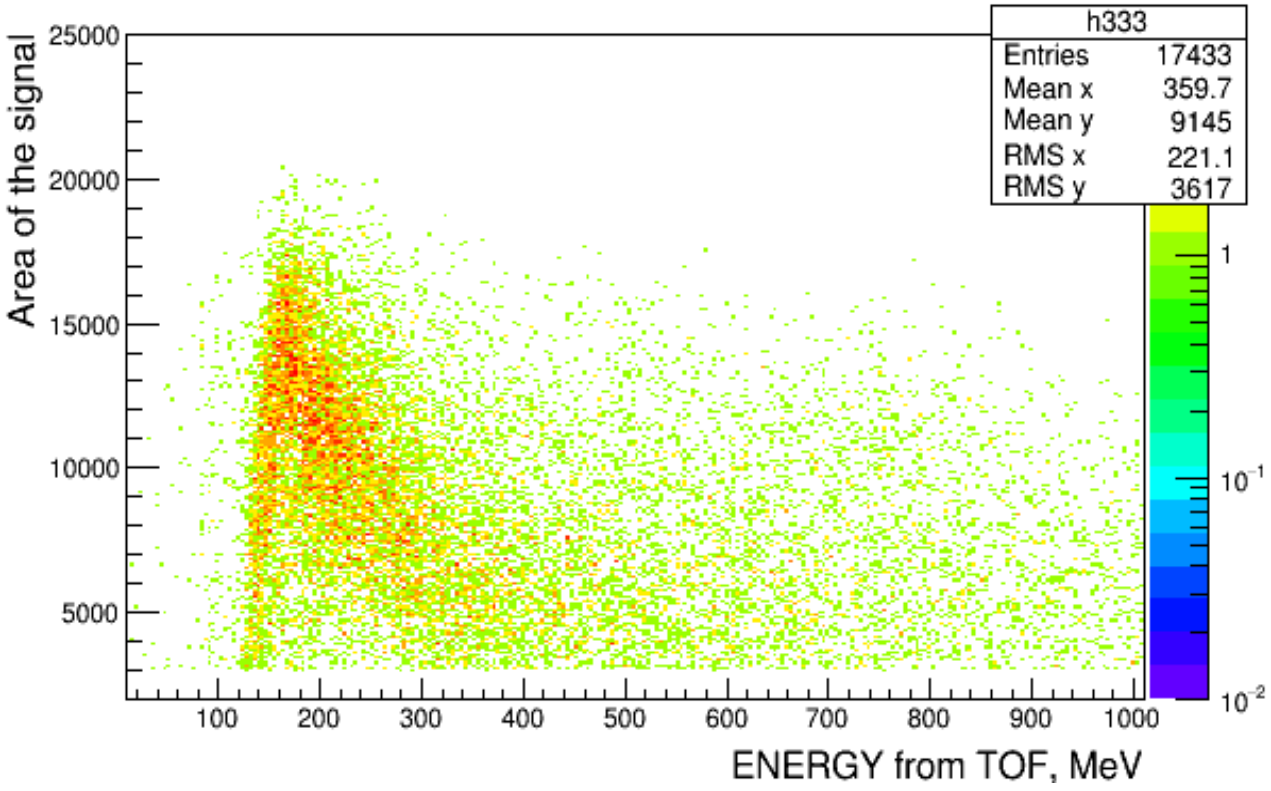
Coincidenza 1-2-3-4



Analisi dati – Polietilene 10 mm

Scintillatore 4

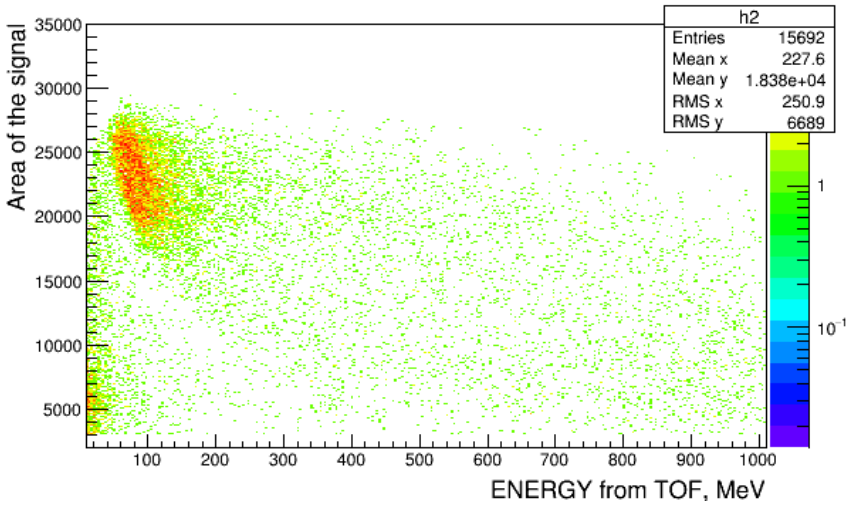
Coincidenza 1-2-3-4



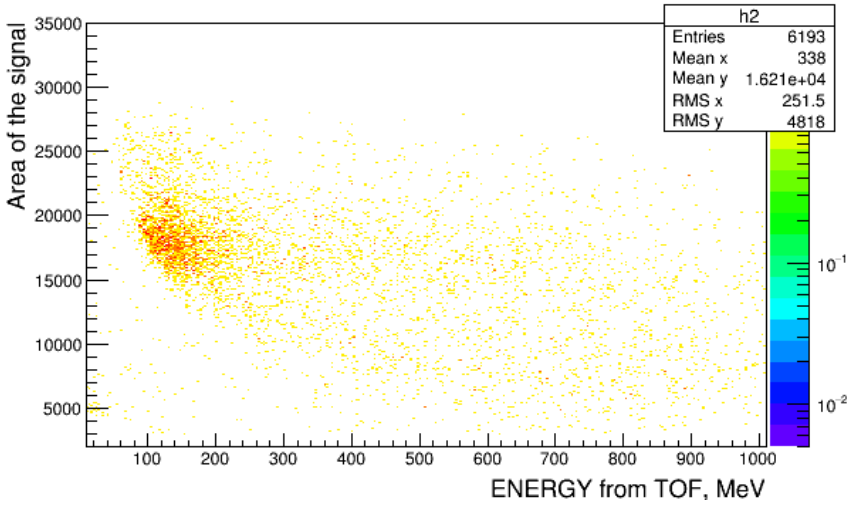
Analisi dati – Carbonio 5 mm

Scintillatore 1

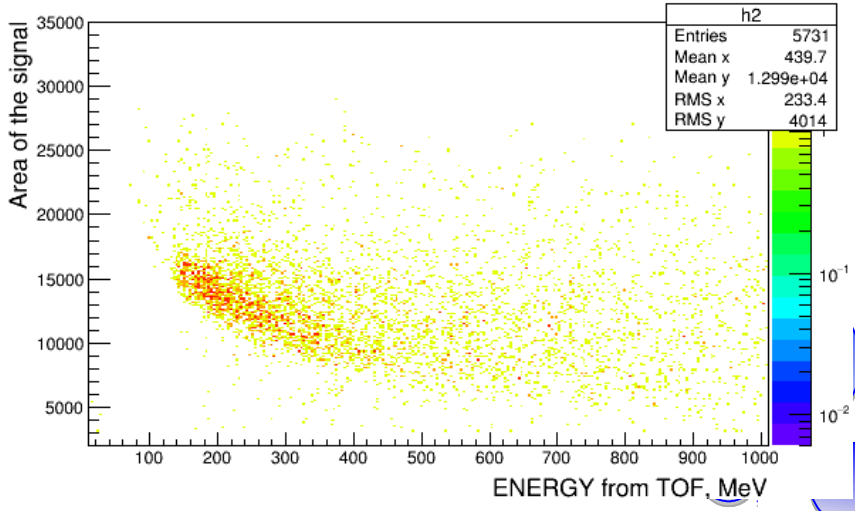
Coincidenza 1-2



Coincidenza 1-2-3



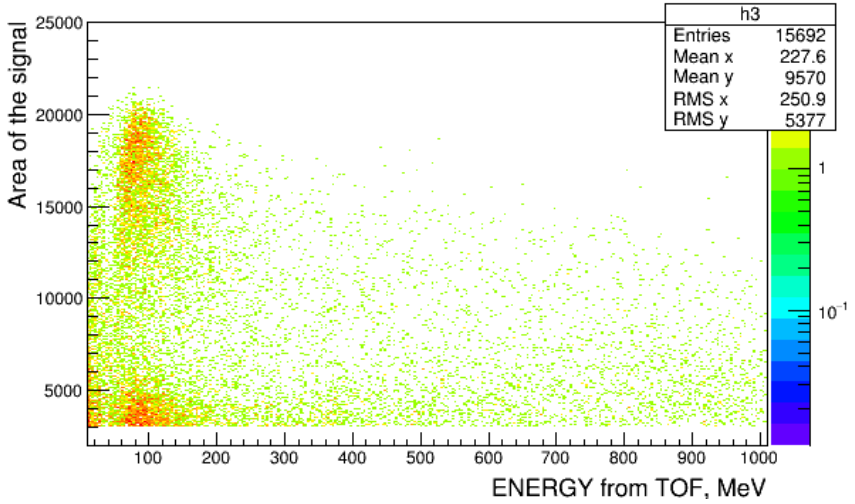
Coincidenza 1-2-3-4



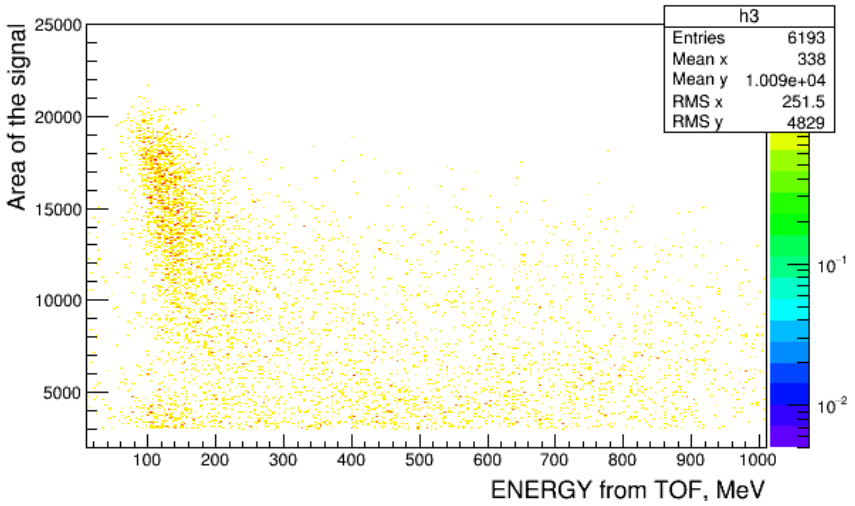
Analisi dati – Carbonio 5 mm

Scintillatore 2

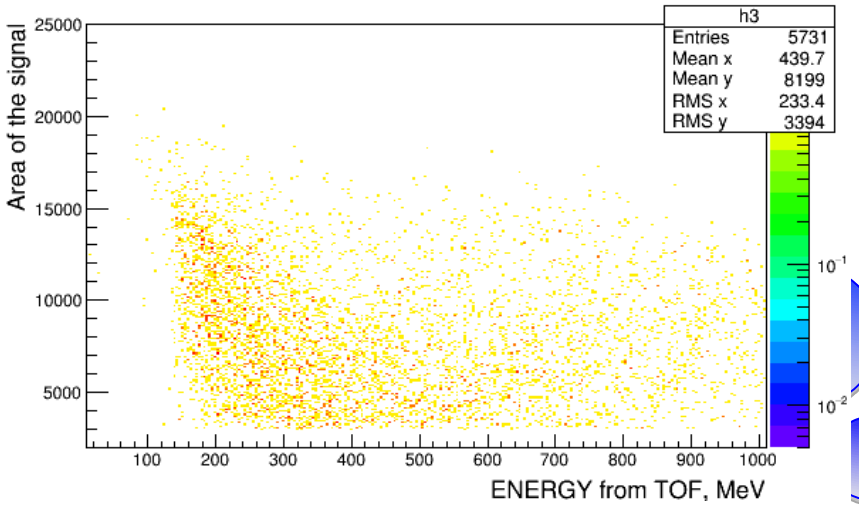
Coincidenza 1-2



Coincidenza 1-2-3



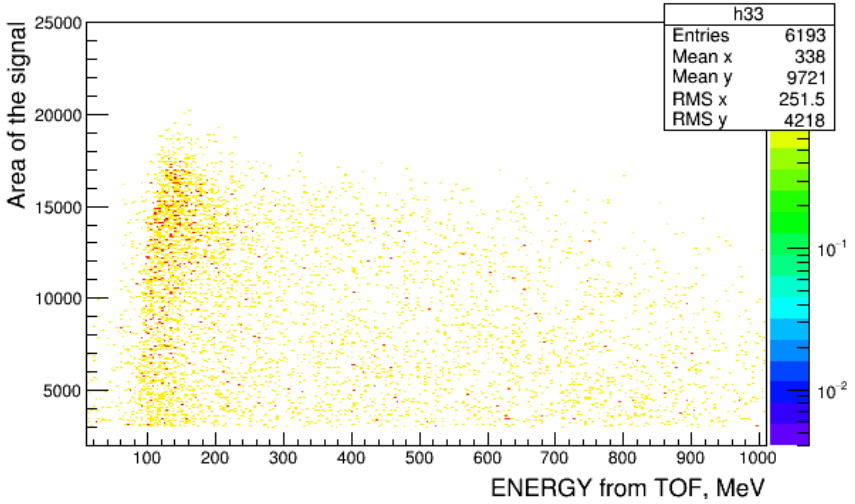
Coincidenza 1-2-3-4



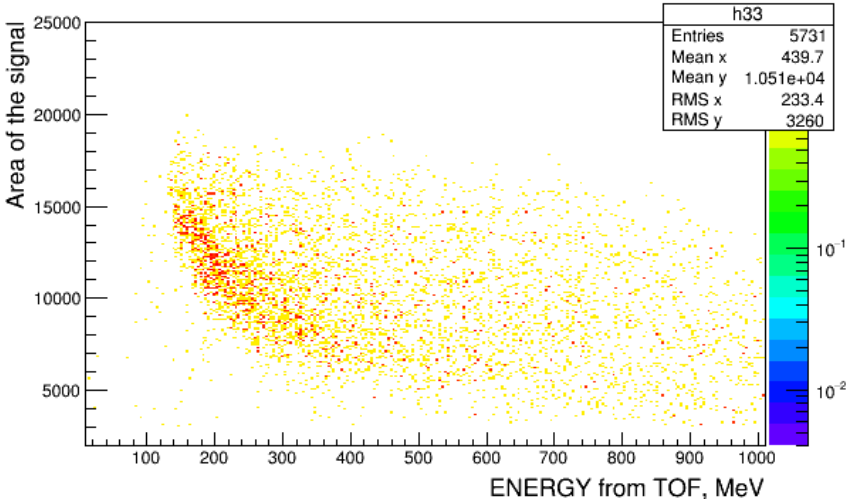
Analisi dati – Carbonio mm

Scintillatore 3

Coincidenza 1-2-3



Coincidenza 1-2-3-4



Analisi dati – Carbonio 5 mm

Scintillatore 4

Coincidenza 1-2-3-4