

A $n+1^{\text{th}}$ look at the test beam data or do we see what we expect ?

27/09/2024

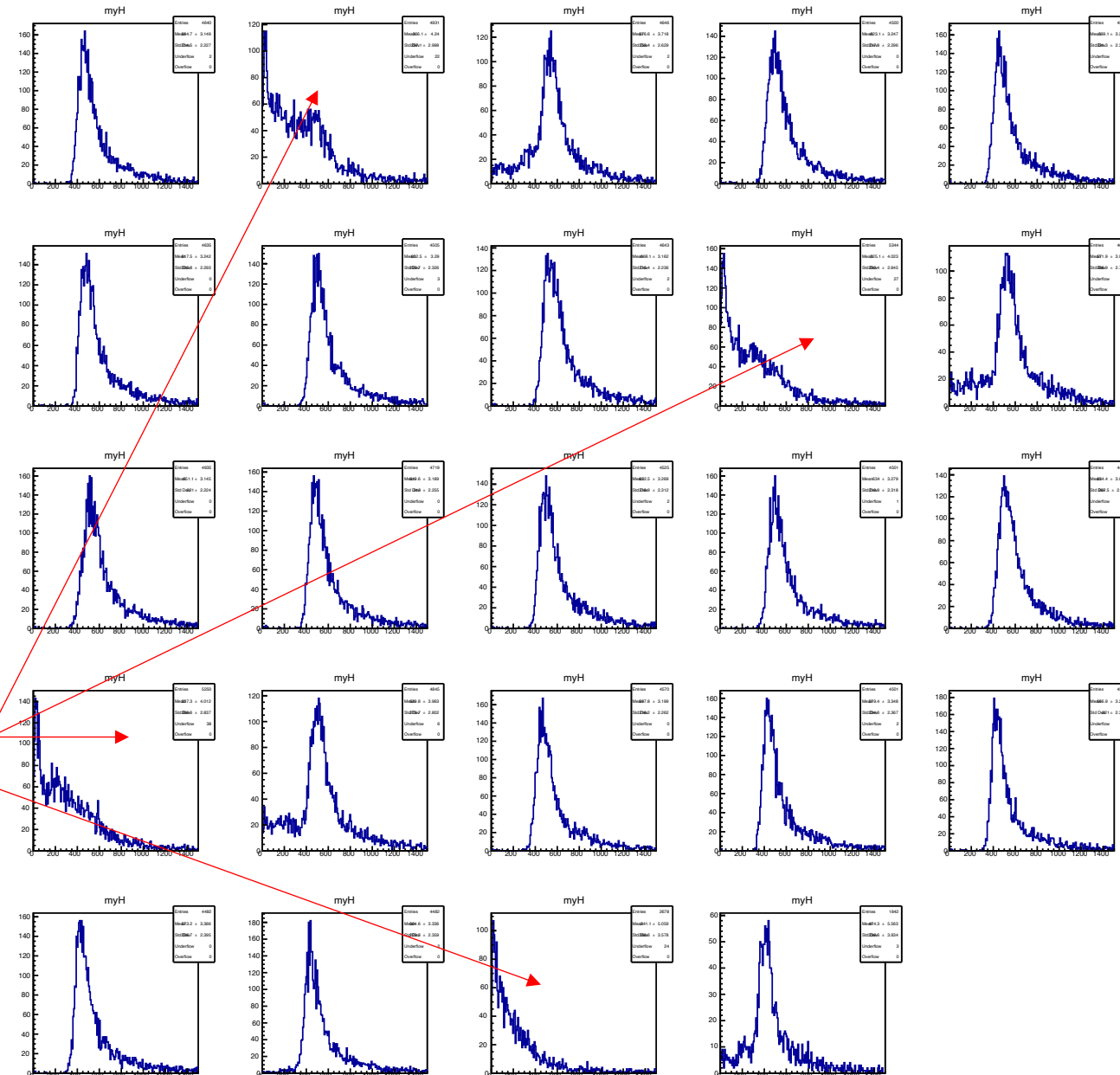
General requirements :

- v3 processing
- general cuts : `("(muonType==20&&eventType==4)&&hitTotCor<1500 &&diffTrack2<1") ;`
- `muonType==20` (crosses all GRAINITA)

Towards a simple way to look at the uniformity ... (it will be a way to crosscheck the ultimate method with the Landau fit and the Muon to Pion correction)

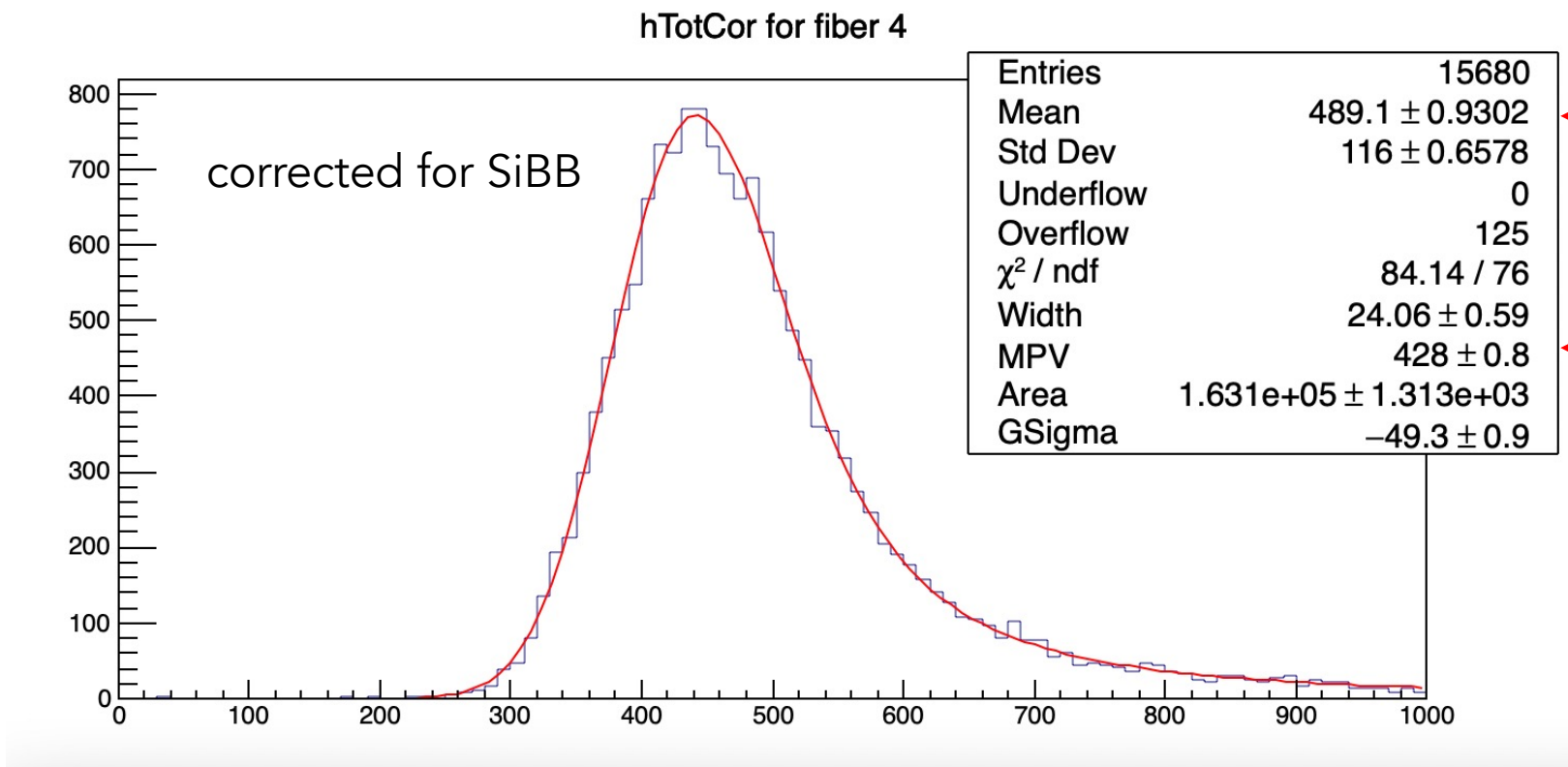
Run 41-45 + 50-51 Troll 1 water

Look at $y_M = .34$



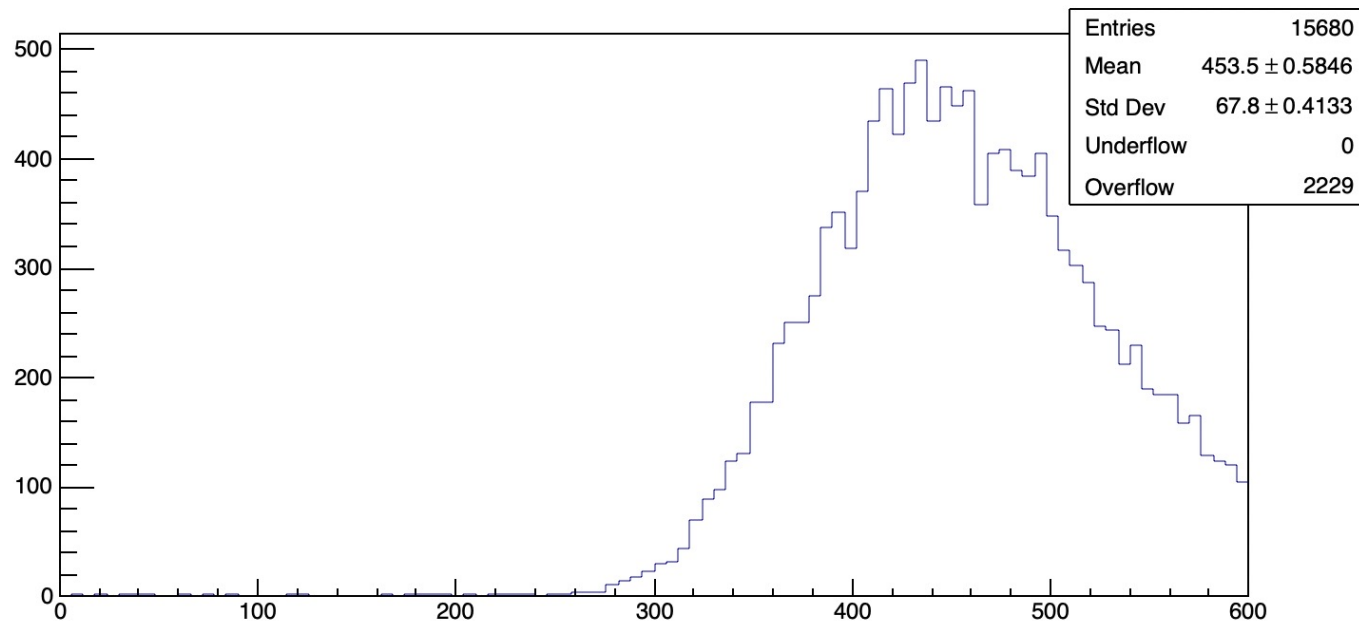
Run 59 & 60 and my (favourite) Fiber 4

Signal in a corona centered around Fiber 4 and $.1 < R < .4$



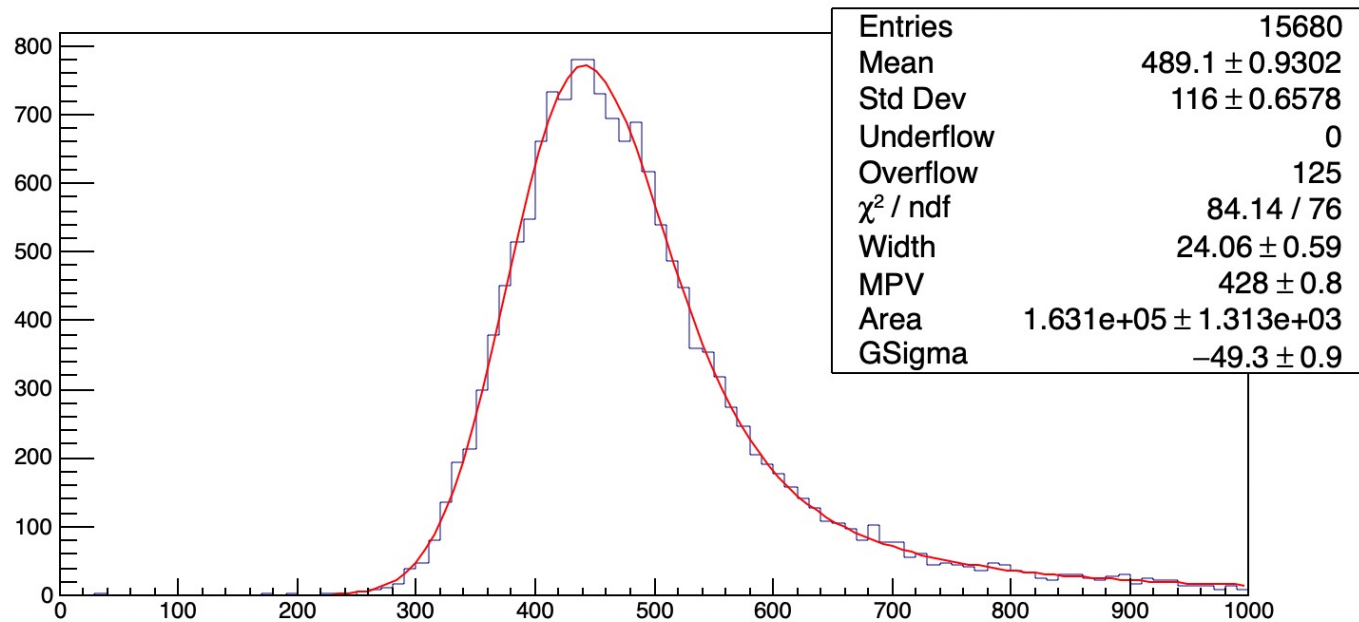
and the mean is not perfect
(much worse for pion !)

hTotCor for fiber 4



Mean in a restricted range ?

hTotCor for fiber 4



even when cutting a lot the tail it does not work well

Use

- the Max (or the average of the Max, Max-1, Max+1)
- We know that it will put to 0 in the fiber ... overestimate of the non-uniformity (higher limit then)

Back-up slides

Run#	Troll Type	Data type	Comment	Dark
11	Troll1 Water	LED + pedestal ?		118 – Event Type = 4 LED reste pedestal ?
24	Troll1 Water	LED-only		Event Type = 4 LED
25,30,31,32	Troll1 Water	Electron		~120 – 130
33,34	Troll1 Water	Muon		~130
35,36,37,38,39,40	Troll1 Water	Pion.	changes in position of GRAiNITA ... Beam changes	~130
41,42,43	Troll1 Water	Pion	With 3x3 in the trigger (Samedi soir S, MH)	~140
44,45	Troll1 Water	Pion	No 3x3 in trigger. Dimanche matin... (Giulia & co)	~130
47	Troll1 Water	Pedestal		~ 119
48	Troll1 Water	LED		118 .
50,51	Troll1 Water	Pion	Trigger 5x5	~130
52	Troll2 Heavy L	LED	Degraded SiBB	203. SiBB pb from here
53,54,55	Troll2 Heavy L	Pion	Trigger 5x5 Degraded SiBB	210
56	Troll1 Heavy L	LED+pedestal	Degraded SiBB	Bizarre du beam ???
57,58	Troll1 Heavy L	Pion	Trigger 5x5 Degraded SiBB	180 ?
59,60	Troll1 Heavy L	Muon	Degraded SiBB	211
61	Troll1 Heavy L	LED	Degraded SiBB	204 eventType = 4 = LED
62 27/09/2024	Troll1 Heavy L	LED	Normal SiBB	125 eventType = 4 = LED 7