Beam Test PSD Tiles Bari at PS

Corrado Altomare on behalf of the Bari HERD group 26/11/2021

Different scintillator material

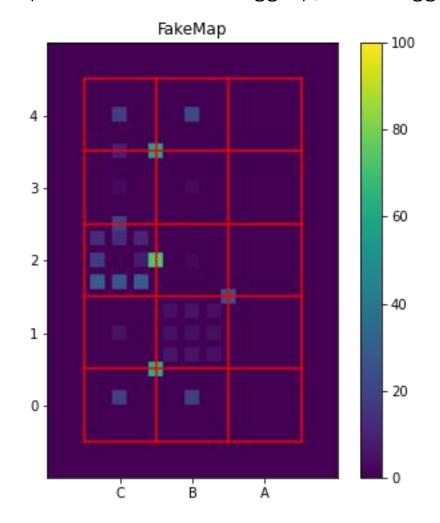
Particle: pi- 10 GeV

• Events acquired ~ 10³

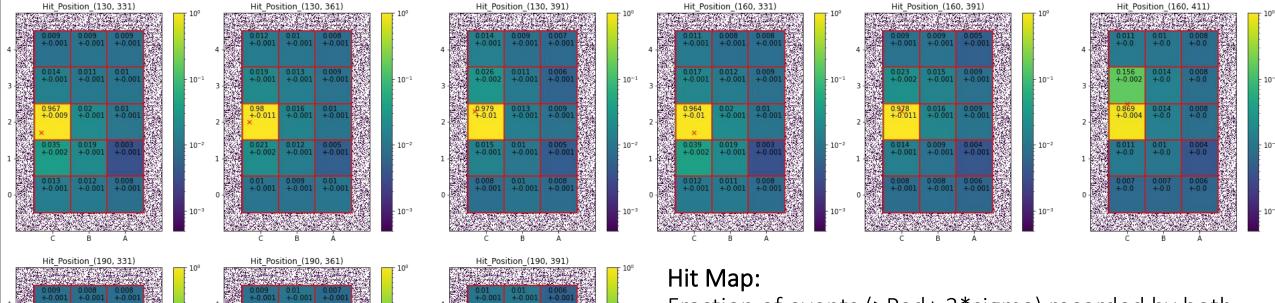
Beam 🛇	С		В		Α	
	3x3	1x1	3x3	1x1	3x3	1x1
4	C4		B4		A4	
	404		408		404	
	ch31 ch30		ch19 ch18		ch9 ch8	
	asic 1		asic 1		asic 1	
3	C3		B3		A3	
	404		408		404	
	ch27 ch26		ch17 ch16		ch7 ch6	
	asic 1		asic 1		asic 1	
2	C2		B2		A2	
	404		408		404	
	ch25 ch24		ch15 ch14		ch5 ch4	
	asic 1		asic 1		asic 1	
1	C1		B1		A1	
	404		408		404	
	ch23 ch22		ch13 ch12		ch3 ch2	
	asic 1		asic 1		asic 1	
0	C0		B0		A0	
	408		408		408	
	ch21 ch20		ch11 ch10		ch1 ch0	
	asic 1		asic 1		asic 1	

Fake plot:

Percentage of fake (Validated without trigger) / Total triggers



Tile C2 Hit Maps (Material 404)

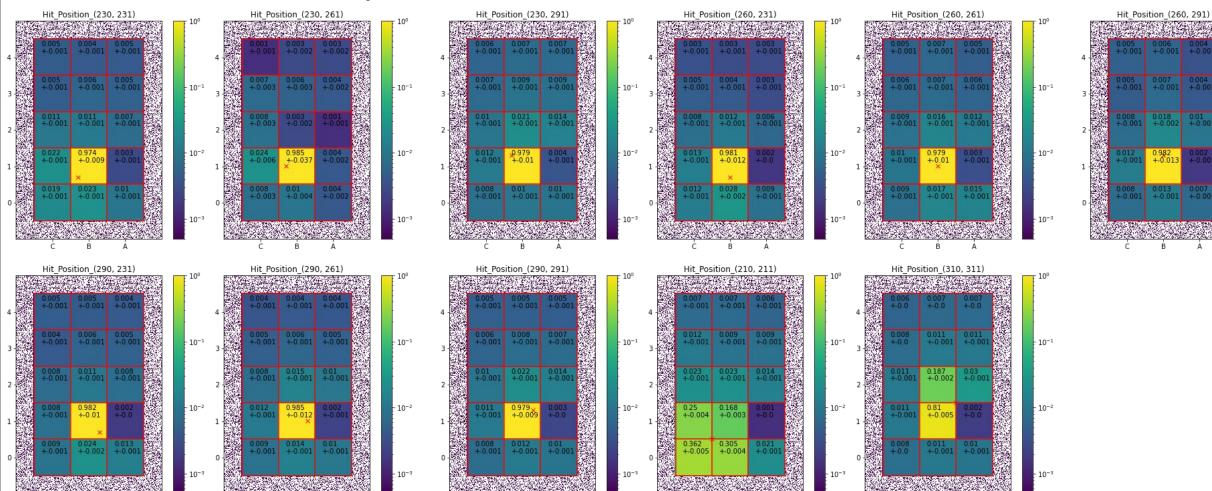


Fraction of events (>Ped+ 3*sigma) recorded by both the SiPMs boards / Total Validated triggers

X -> Beam position

preliminary

Tile B1 Hit Maps (Material 408)



4

Tile C2 vs B1 Light Maps (Material 404 vs 408)

