

Status of BG study of located int.

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DONUT Phone meeting

BG study of located int.

- concordance ratio of “located”-”triggered”

– check for

talk, today



- 1 : SFT match

talk, today



- 2 : Momentum match

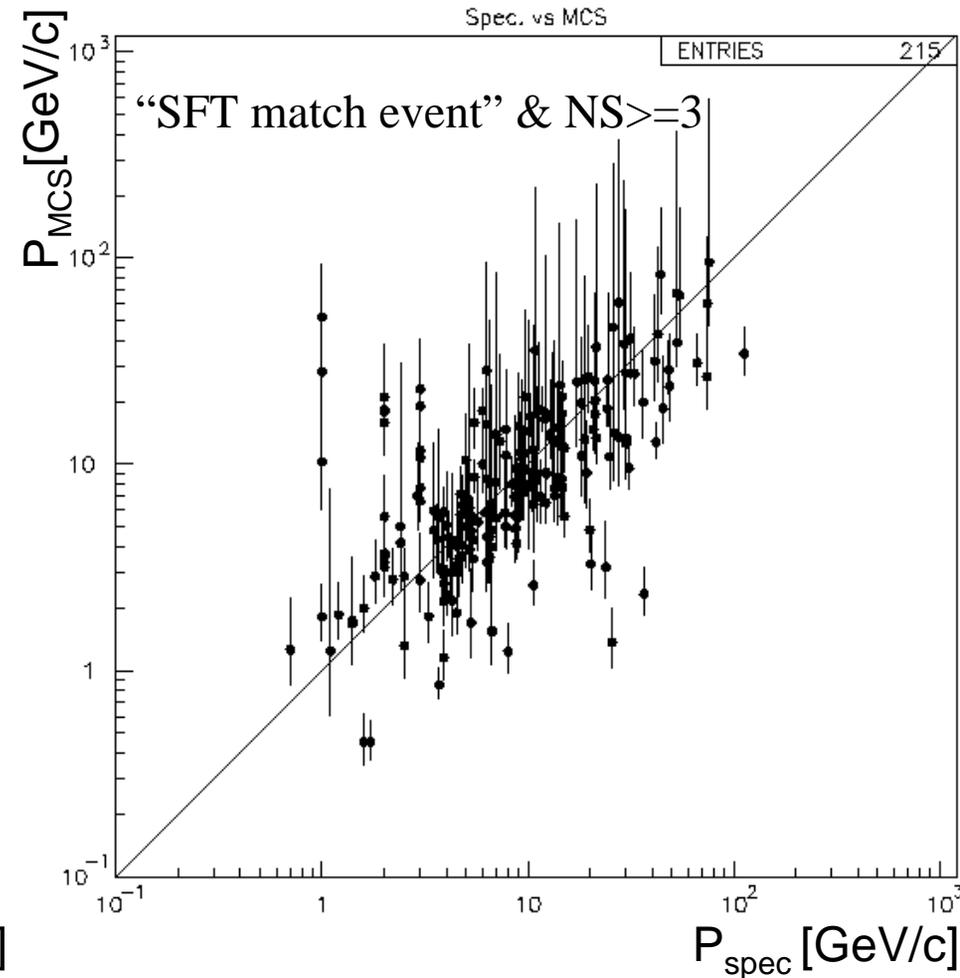
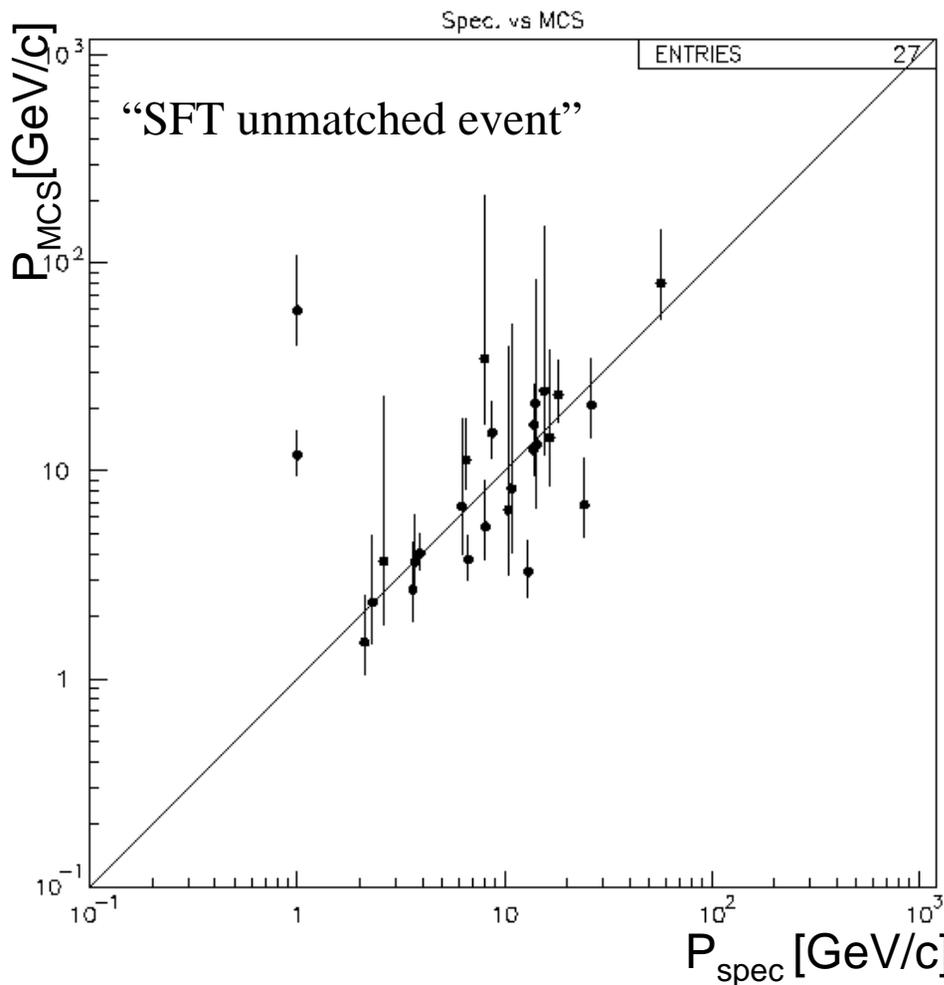
- Is located event int.?

SFT match (preliminary)

- checked : **576** events (located : 581 events)
- definition of “SFT match event” :
 - having at least 2 “SFT match tracks”
 - definition of “SFT match track”
 - position displacement between extrapolated emulsion track position and SFT hit each layers $< \sim 1.5\text{mm}$
 - number of layers having match hit $\geq 5(9)$ or $7(13)$
- “unmatched event” # : **90** (NS=1:73, NS=2:13, NS=3:3, NS=4:1)
 - check momentum match

momentum match (preliminary)

checked : 27events (unmatched : 90events)



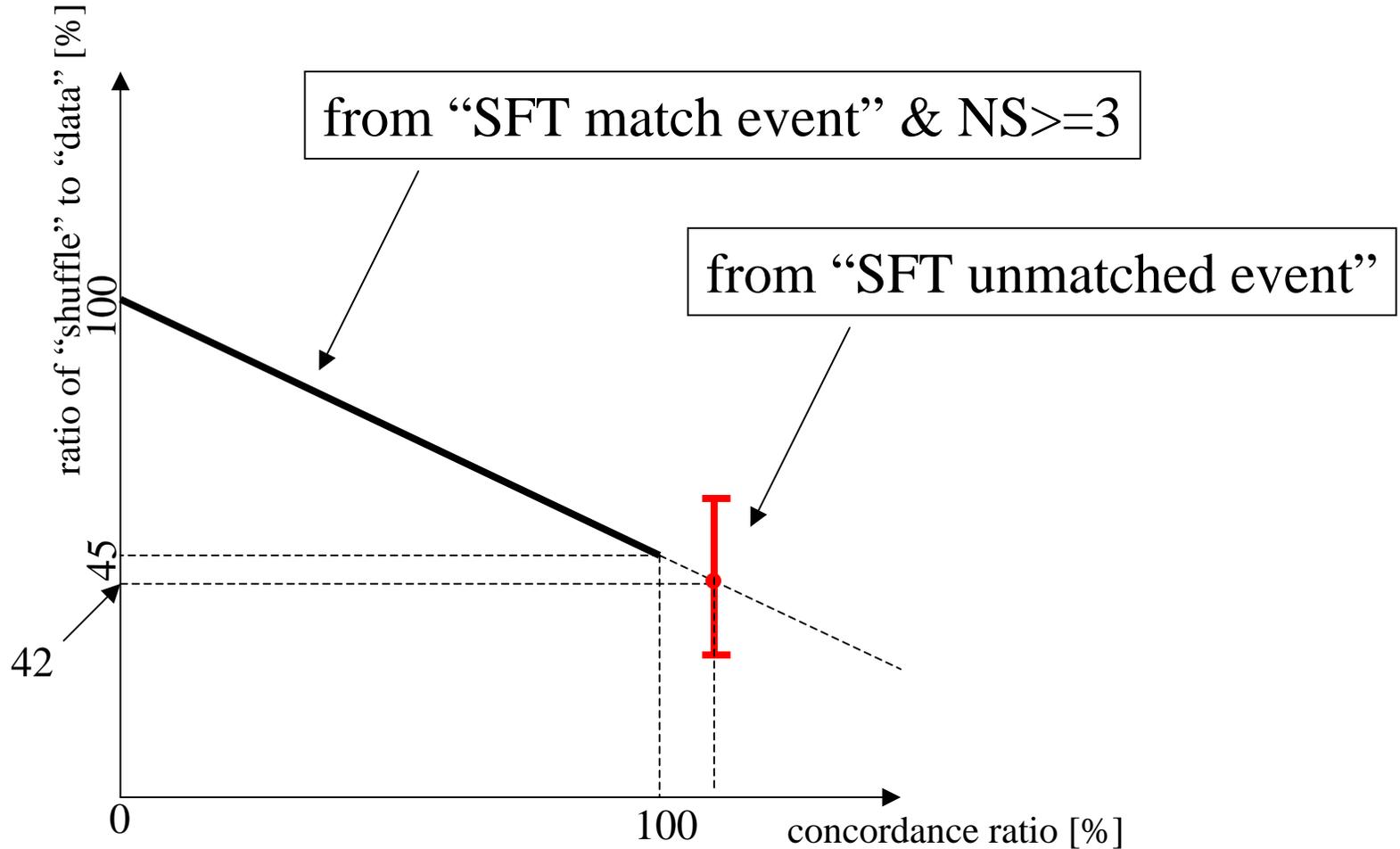
Momentum match (preliminary)

Consistent numbers of P_{MCS} and P_{Spec} within error

	data	shuffle	Ratio of shuffle to data [%]
“SFT unmatched event”	19	8	42
“SFT match event” & $NS \geq 3$	108	49	45

- >Checked for consistent numbers
- >Estimated consistent numbers by chance by shuffling P_{MCS} and P_{Spec}

momentum match (preliminary)



conclusion :

concordance ratio : $100 + 0.0 - 27.7$ [%]

-hypothesized $NS \geq 3$ momentum match as truth

-relatively estimated from $NS \geq 3$ momentum match