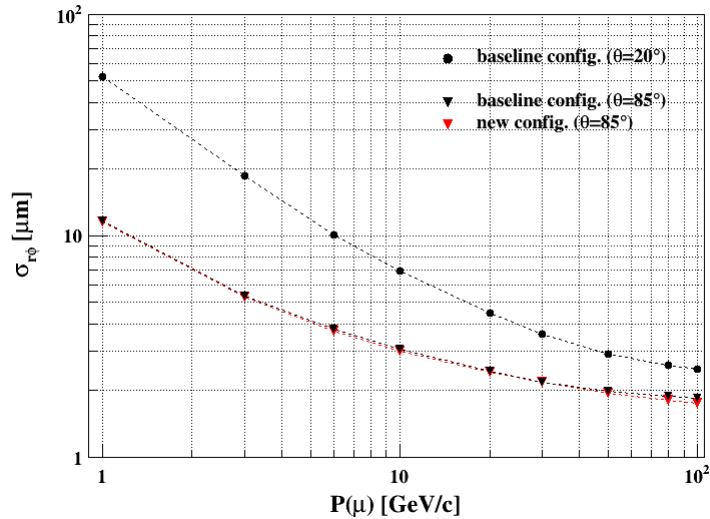


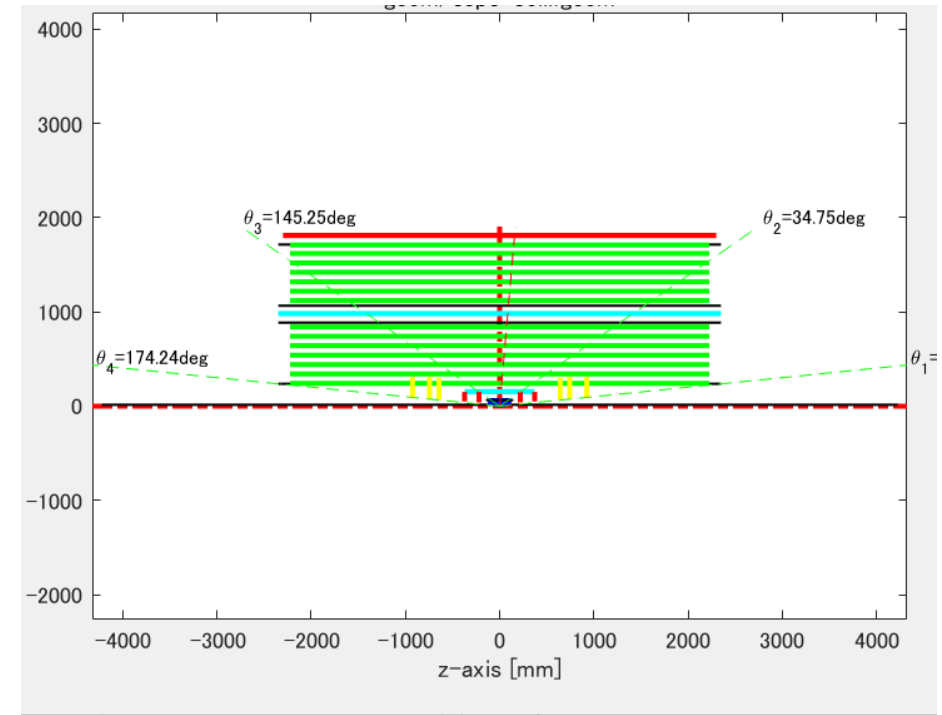
Status on SDT simulation work

SDT configuration : 2*MDC

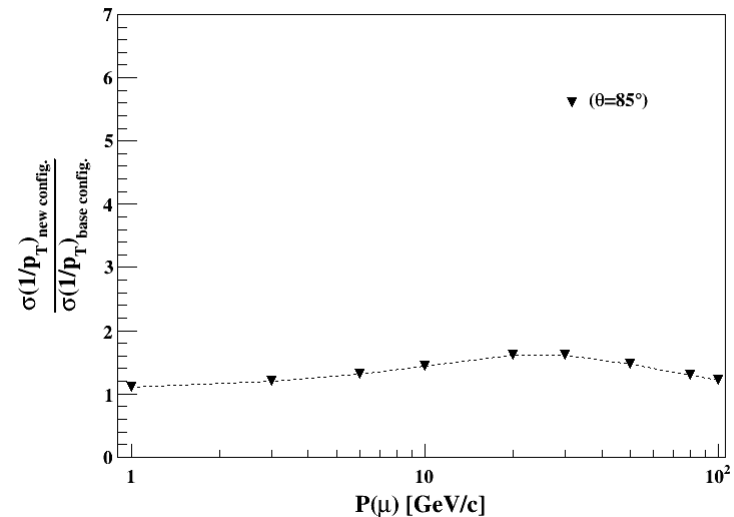
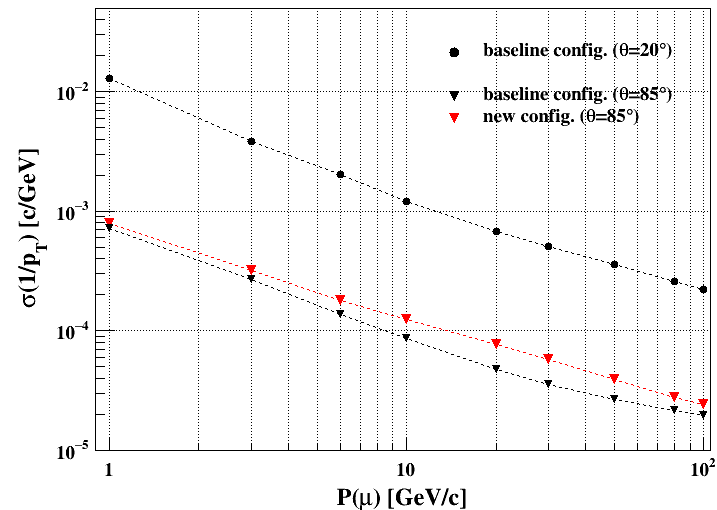
IP res.



Start line
performance
we could compare



Mom. res.

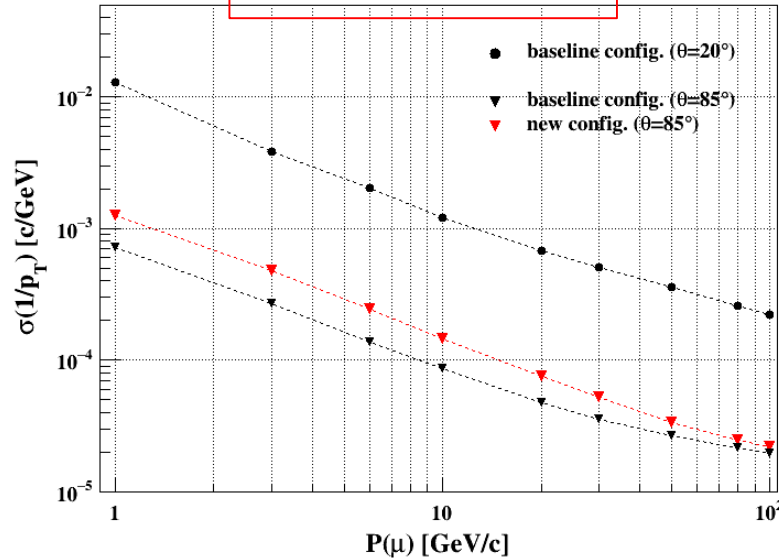


Momentum Resolution : Number of SIT layers, without DCHs

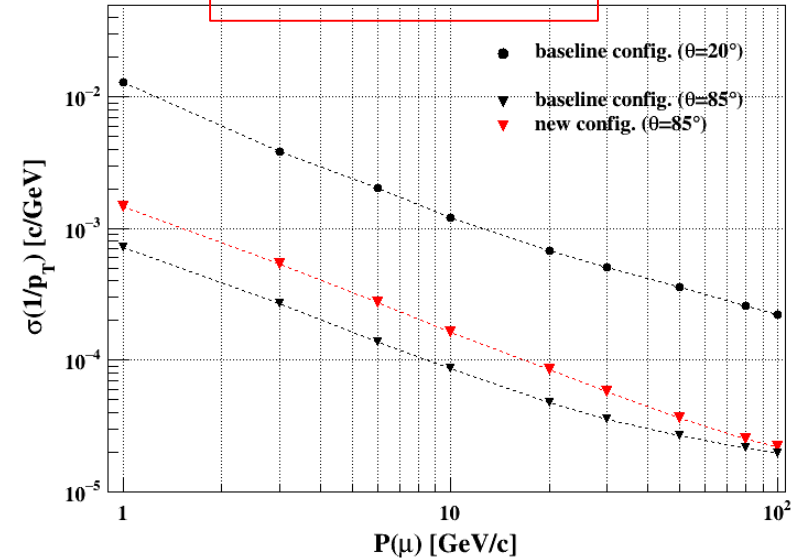
SIT1/2 + SET1/2
is always there,

and then,
additional SIT
sets are set.

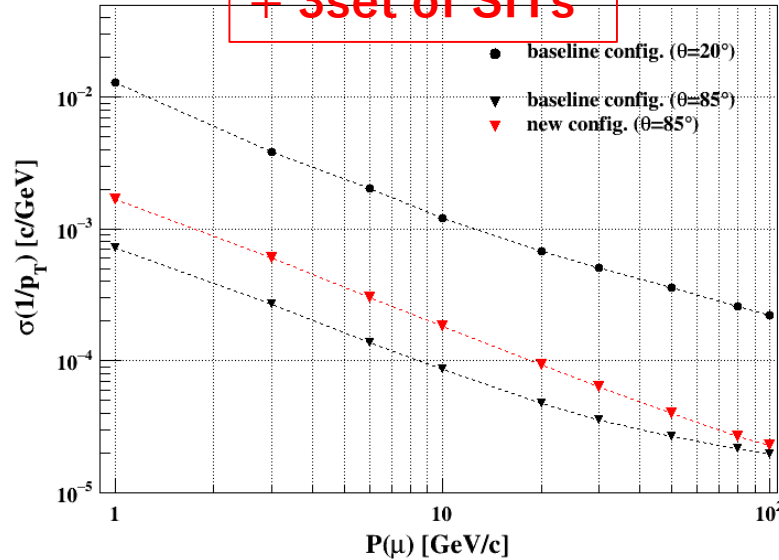
+ 1set of SITs



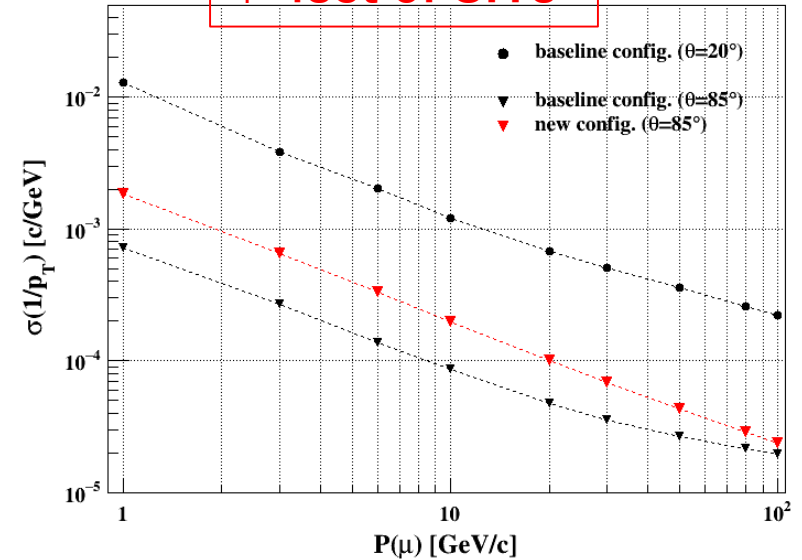
+ 2set of SITs



+ 3set of SITs



+ 4set of SITs



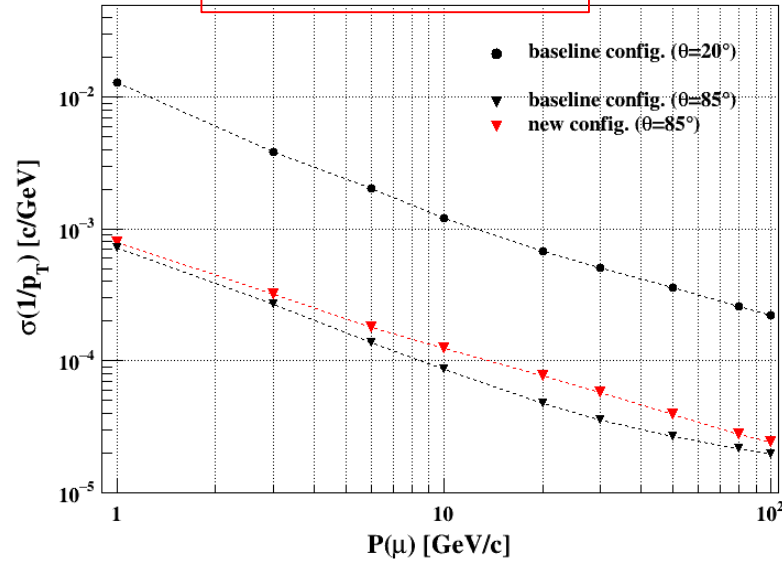
Momentum Resolution : Number of SIT layers, with DCHs

SIT1/2 + SET1/2
is always there,

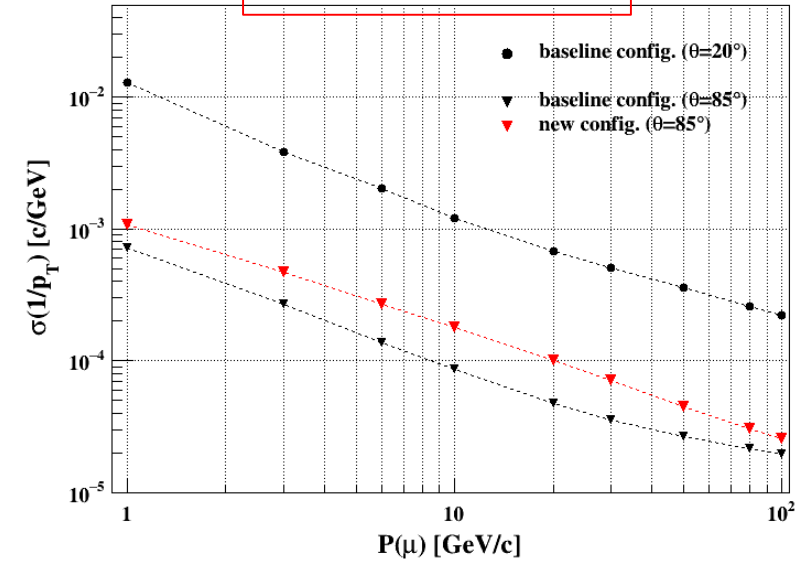
and then,
additional SIT
sets are set.

“SDT configuration”

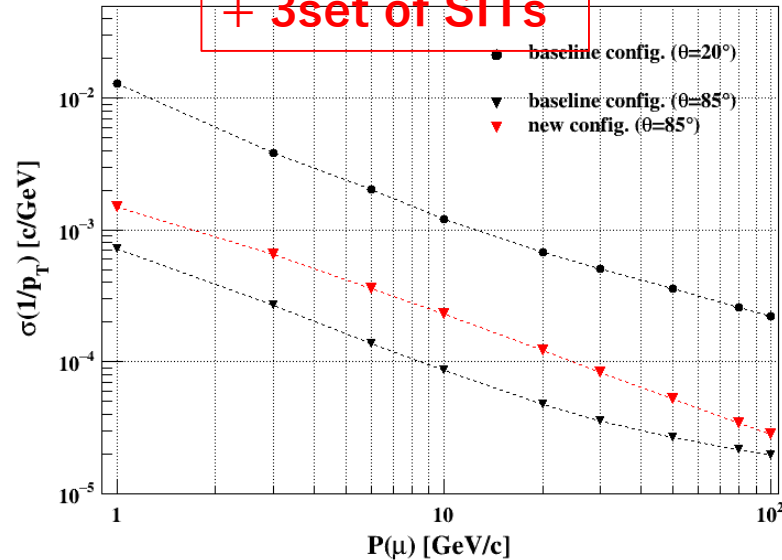
+ 1set of SITs



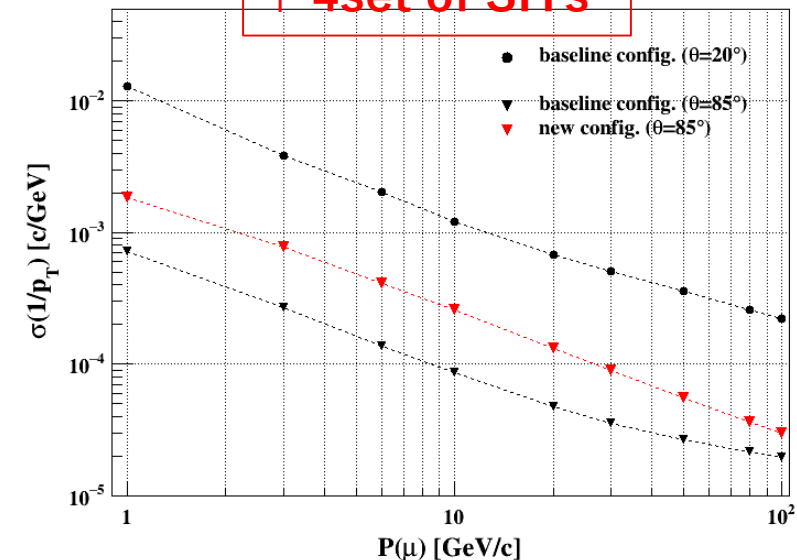
+ 2set of SITs



+ 3set of SITs



+ 4set of SITs

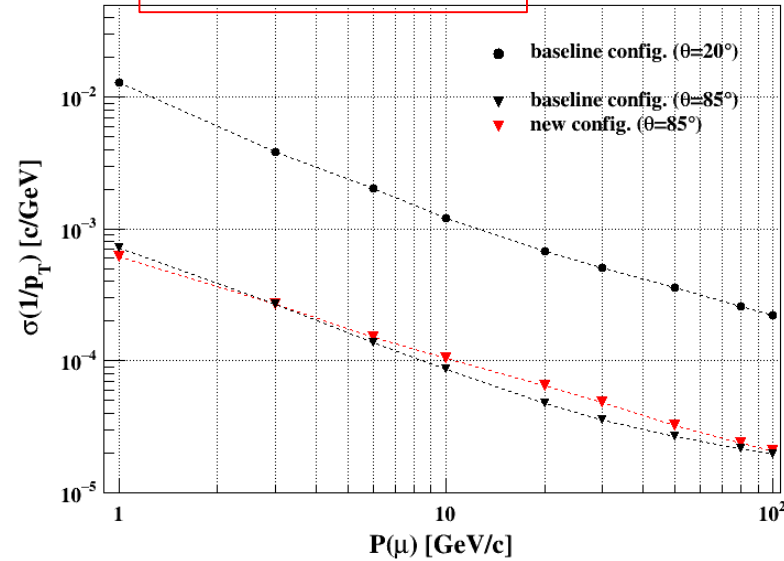


Momentum Resolution : Number of SIT layers, with DCHs

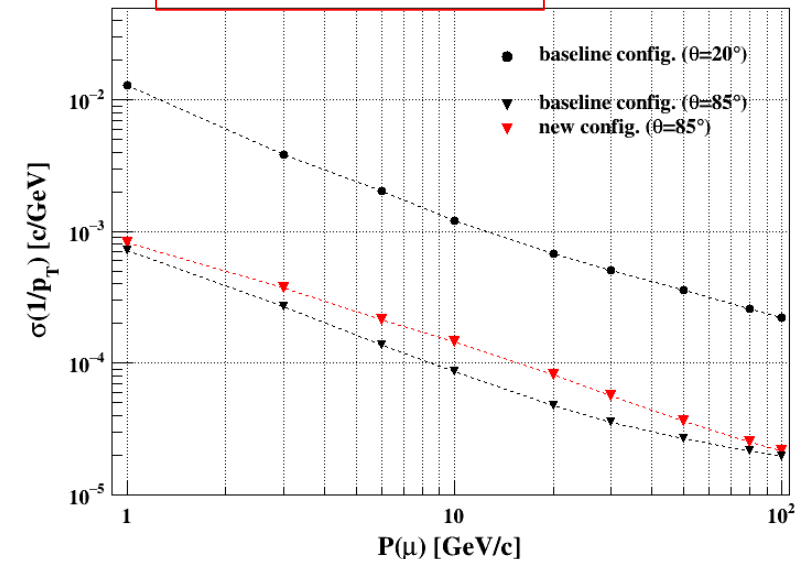
Trial for a reference

DCH wall material budget is set as 0

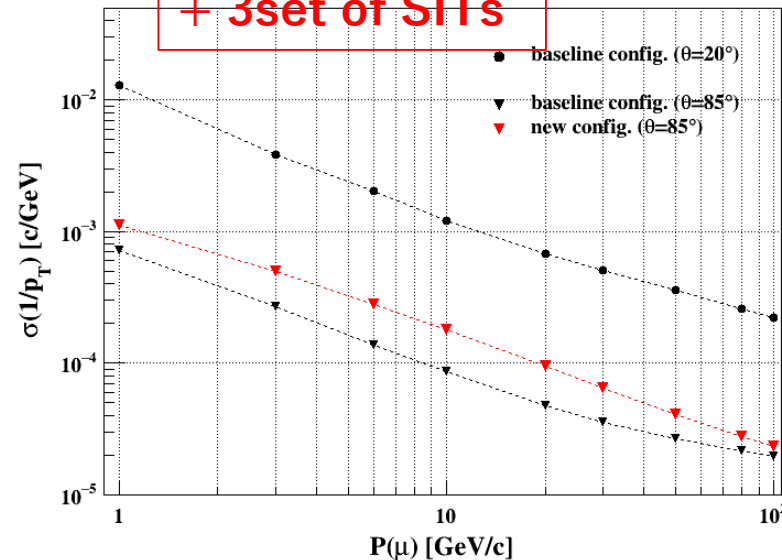
+ 1set of SITs



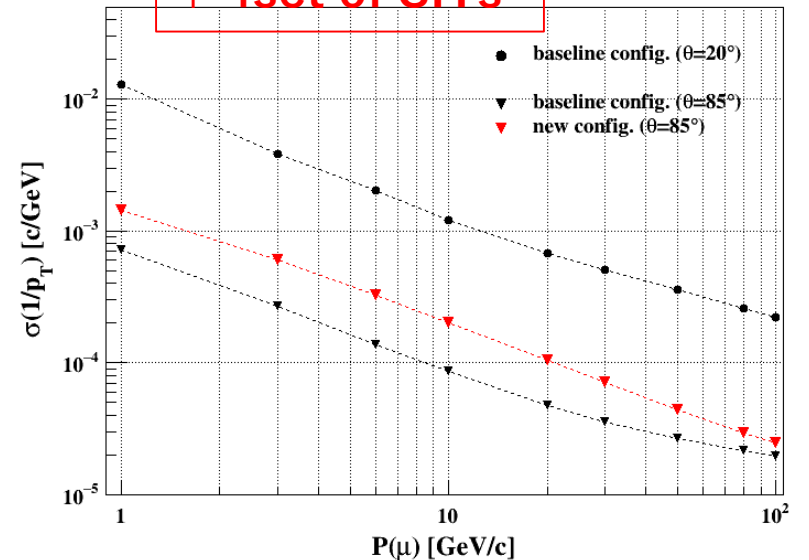
+ 2set of SITs



+ 3set of SITs



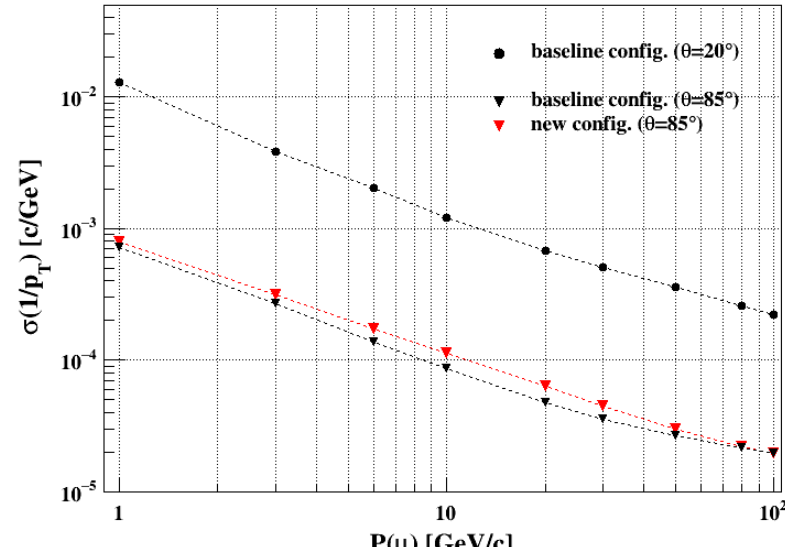
+ 4set of SITs



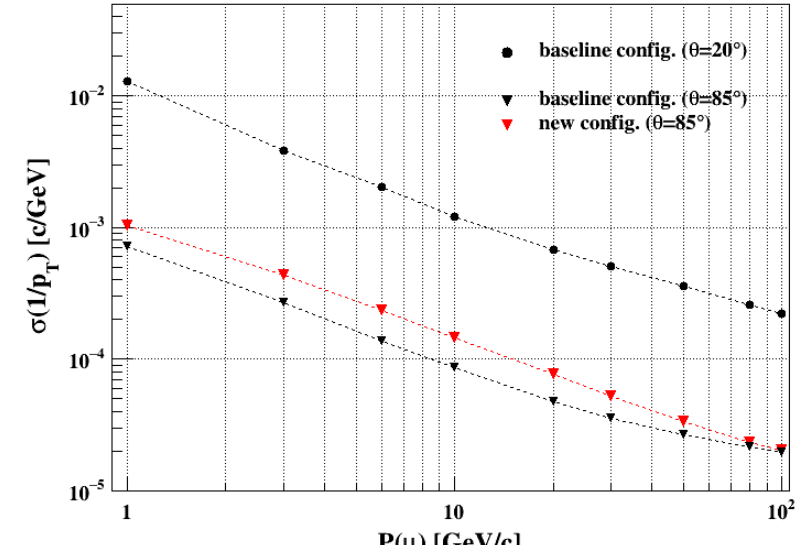
Momentum Resolution : Number of SIT layers, with DCHs

Trial for a reference

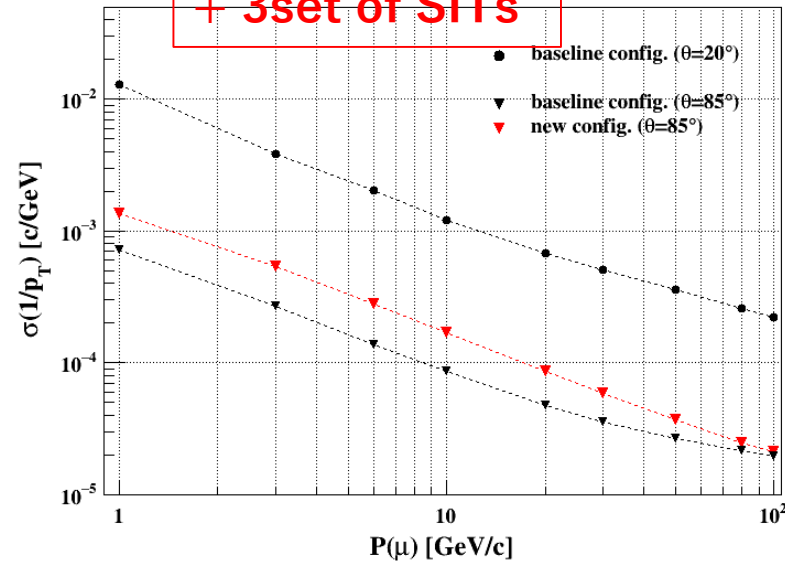
+ 1set of SITs



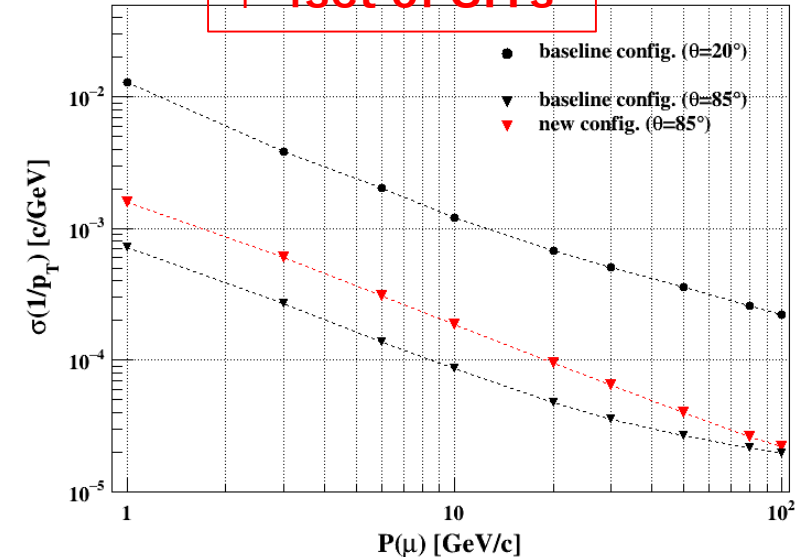
+ 2set of SITs



+ 3set of SITs



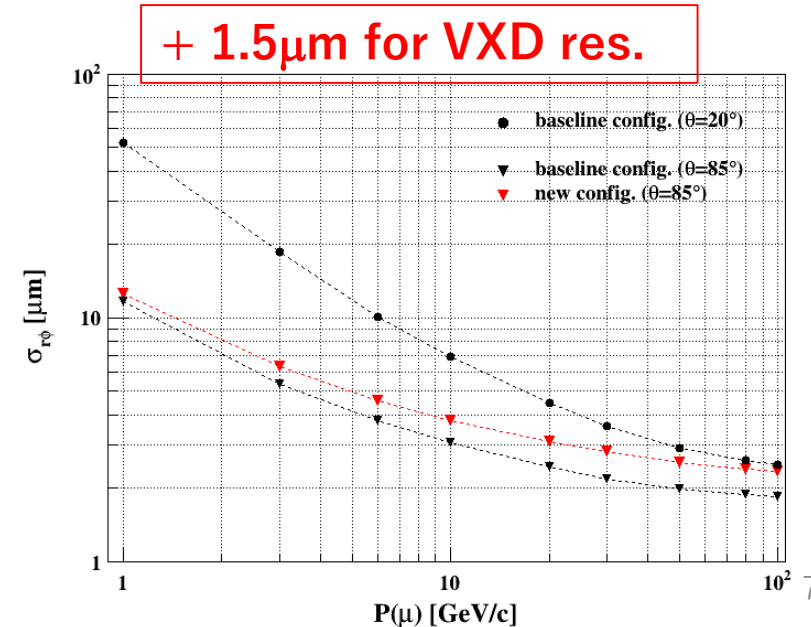
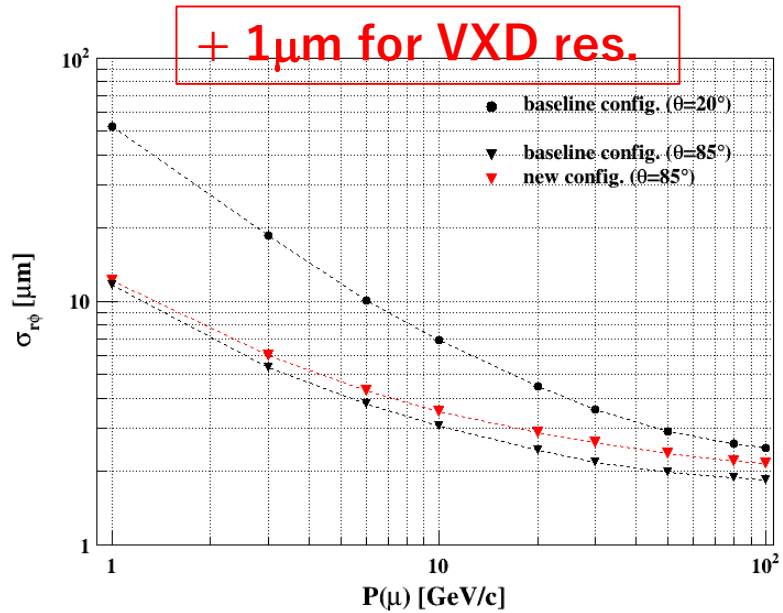
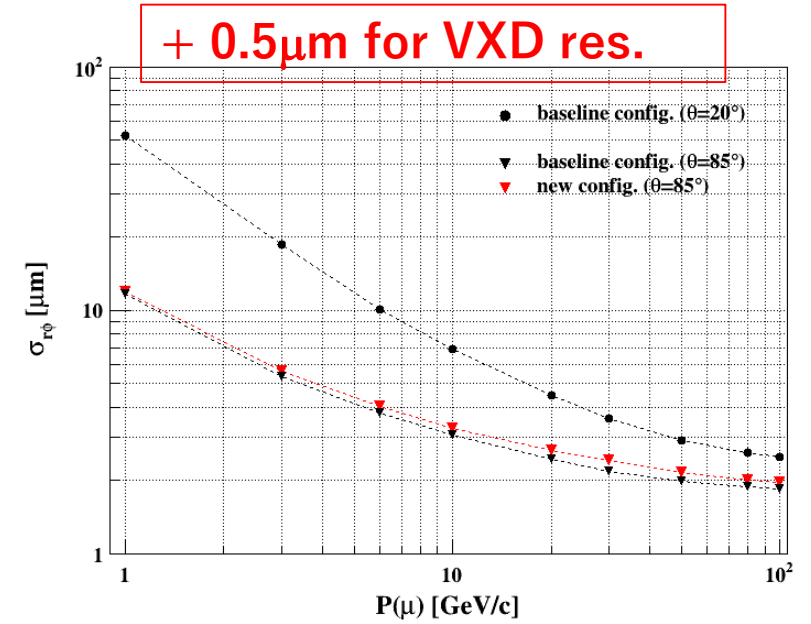
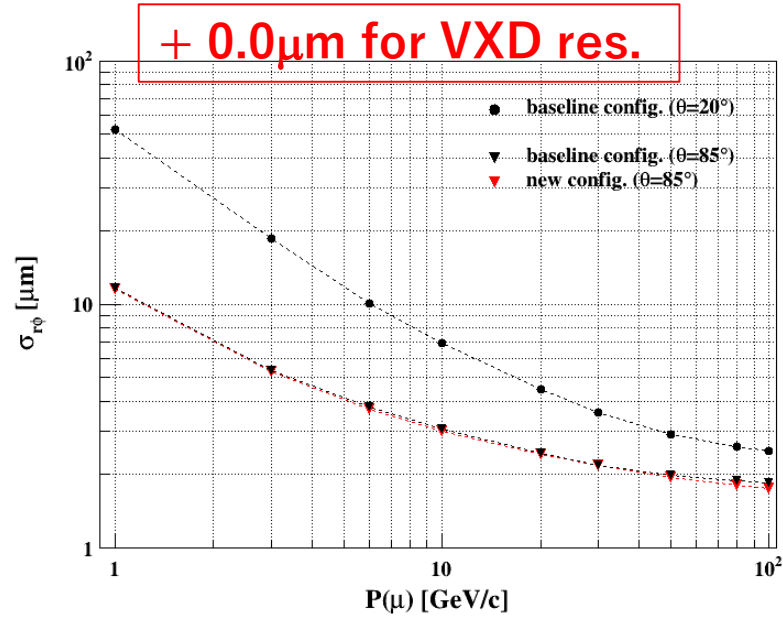
+ 4set of SITs



SIT material budget is set as 0

IP Resolution : SDT config.

2MDC configuration



Comment

- For the momentum resolution, it looks that increasing the number of layers does not help
- What else configuration/setting ?
 - Changing air pressure is not performed yet
 - Assuming 2SITs (SDT config.) ,
Changing the position of the SIT3/4
 - Changing the number of DCH hits:
N(layer)=222, cell size=6mm in baseline
→ N(layer)=130, cell size=10mm in SDT
 - ...