

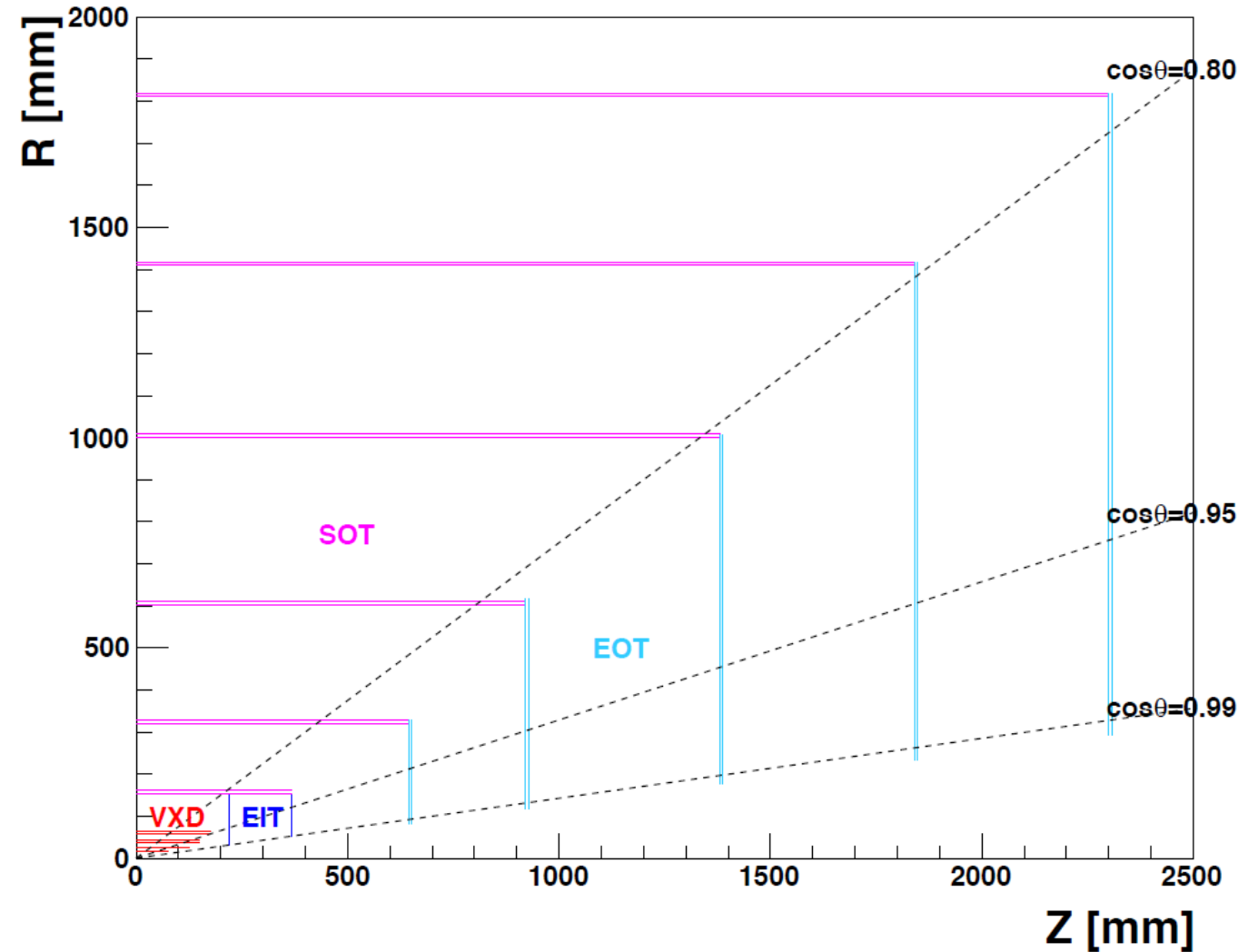
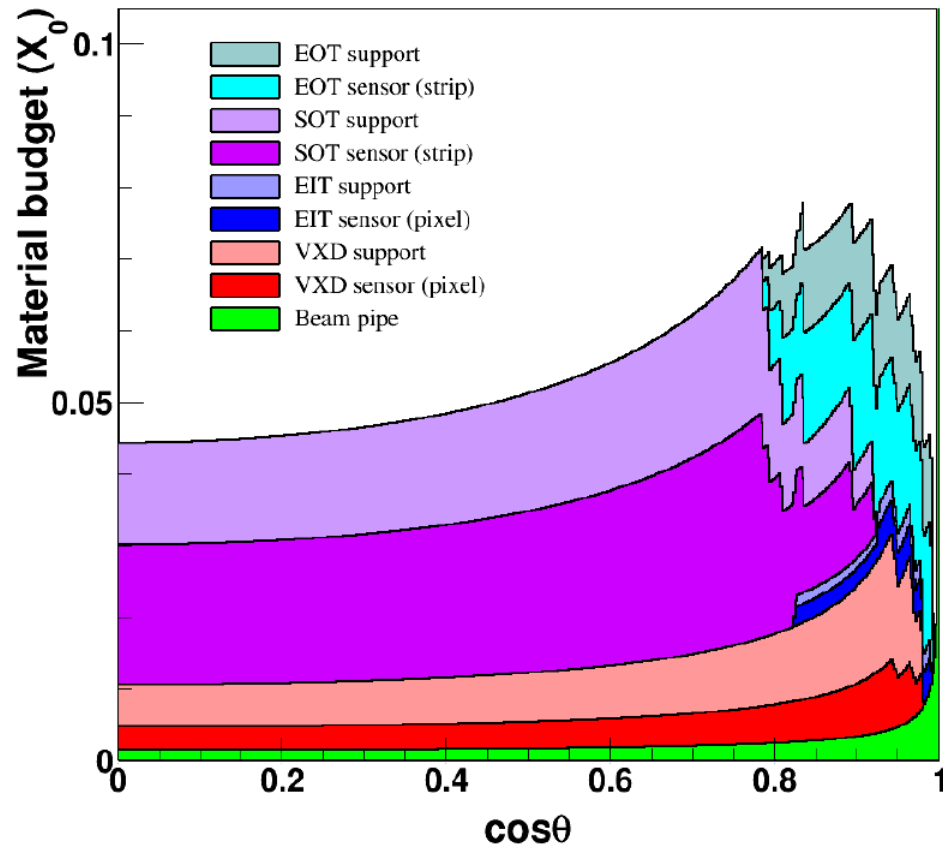
Status on LDT runs

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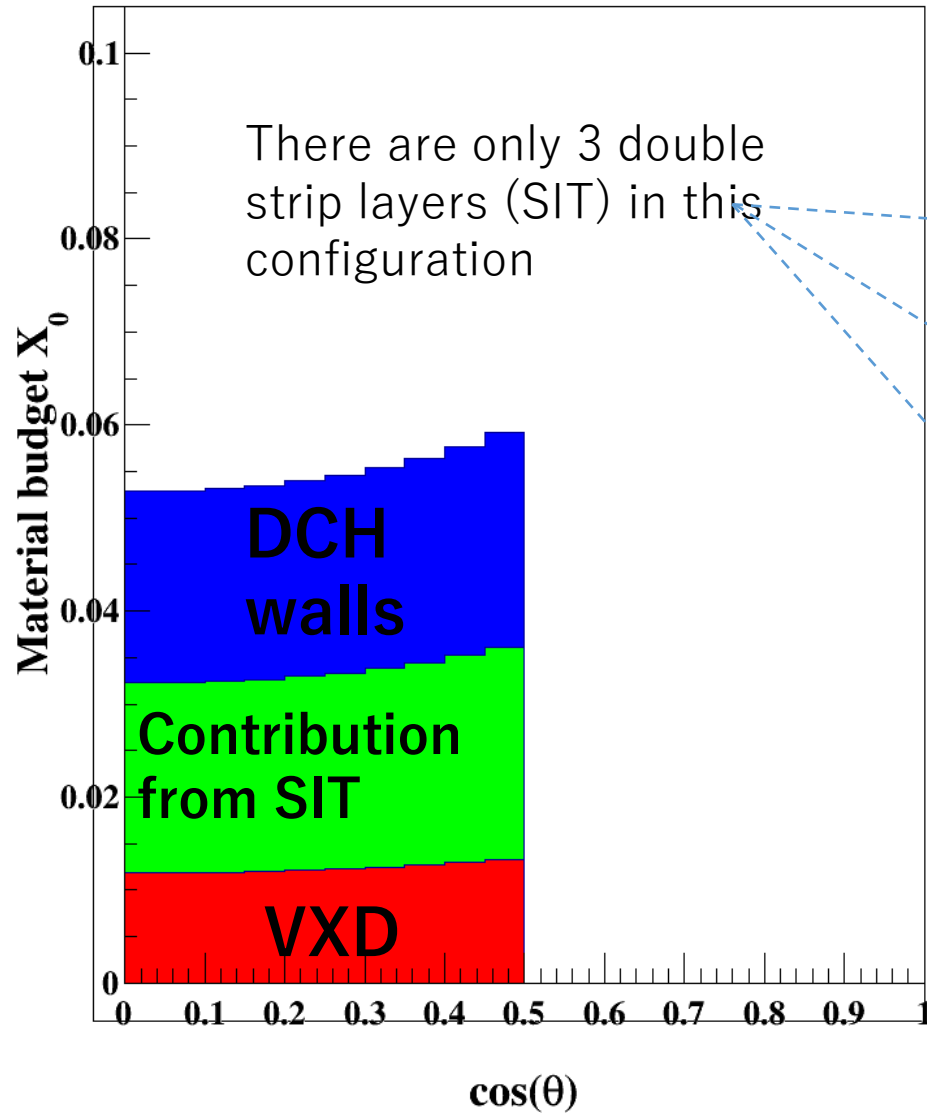
- Scaling the total material budget
(again only barrel =85 degree is studied)

Material budget at FST

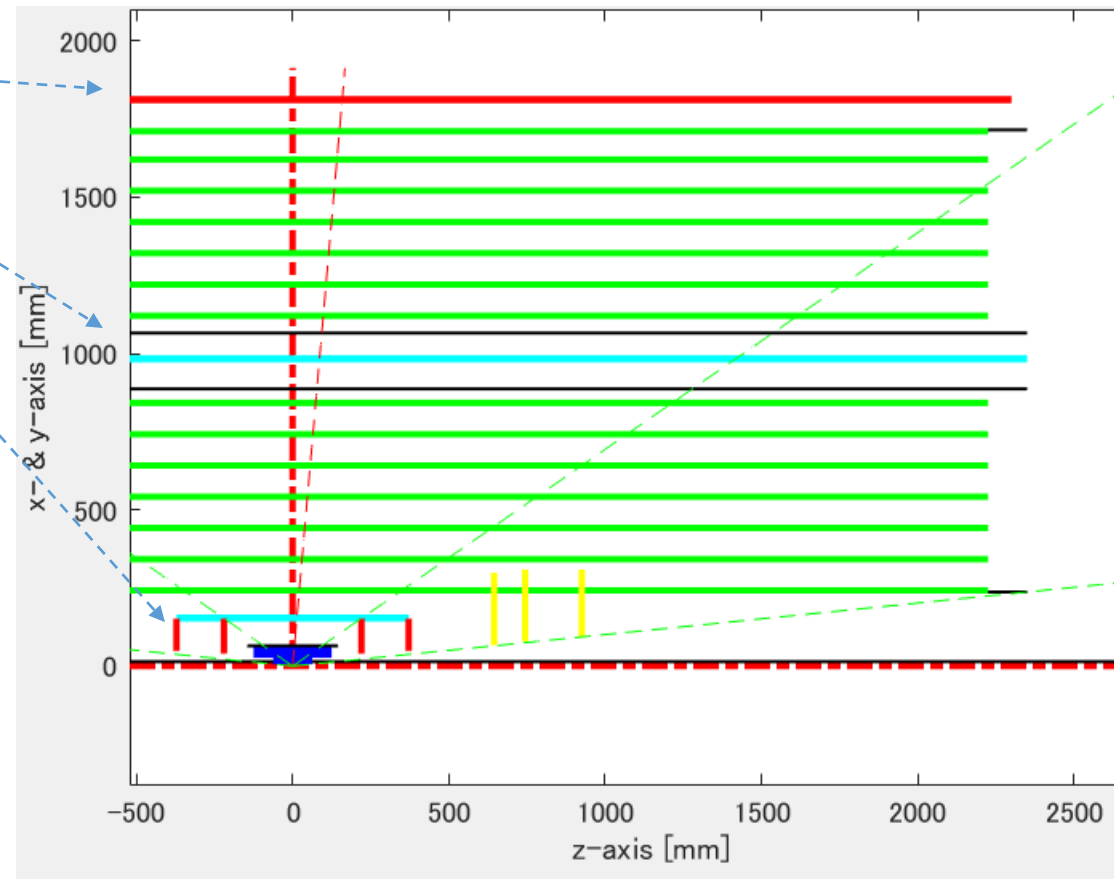
FST plans to have 6 double strip layers



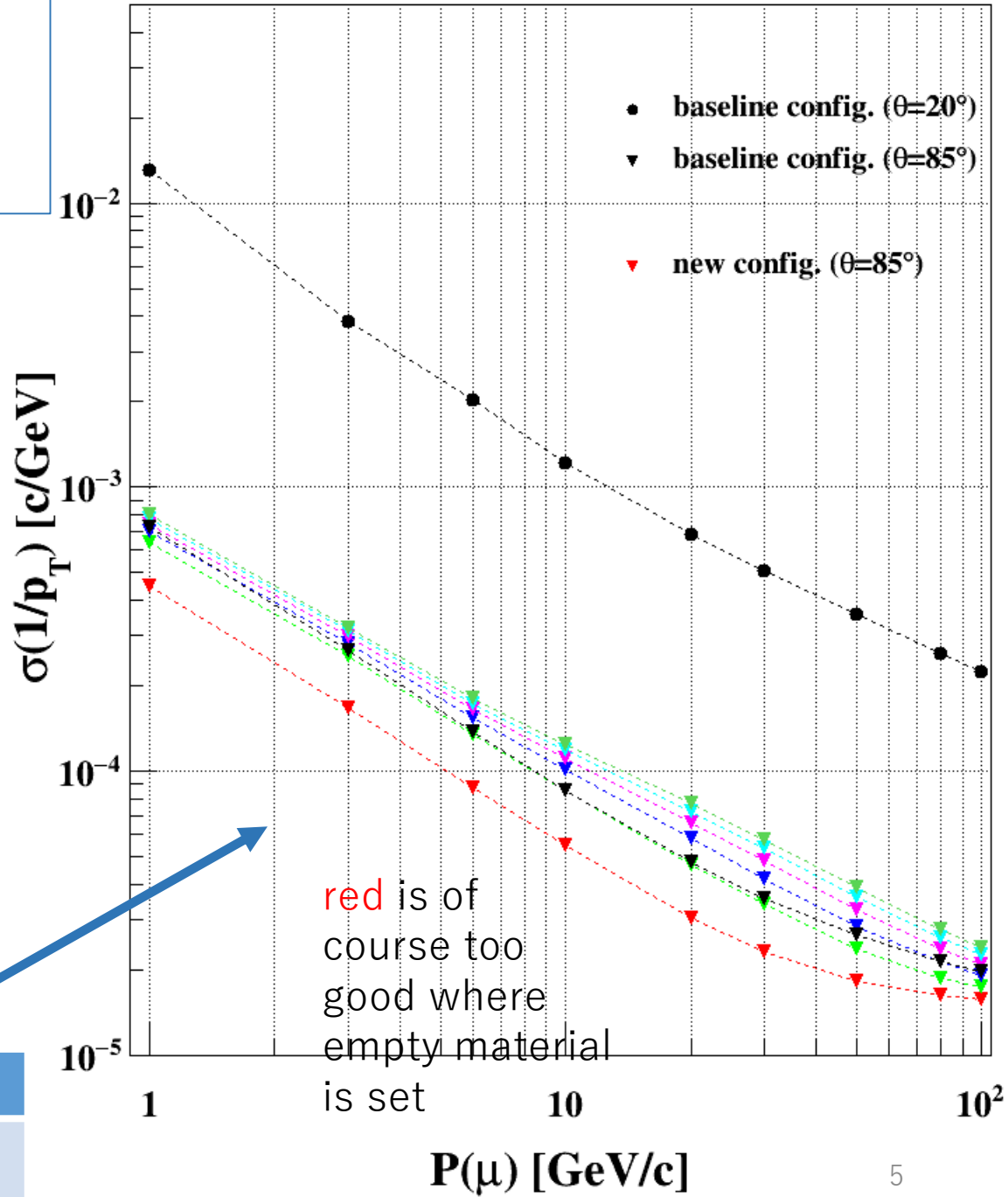
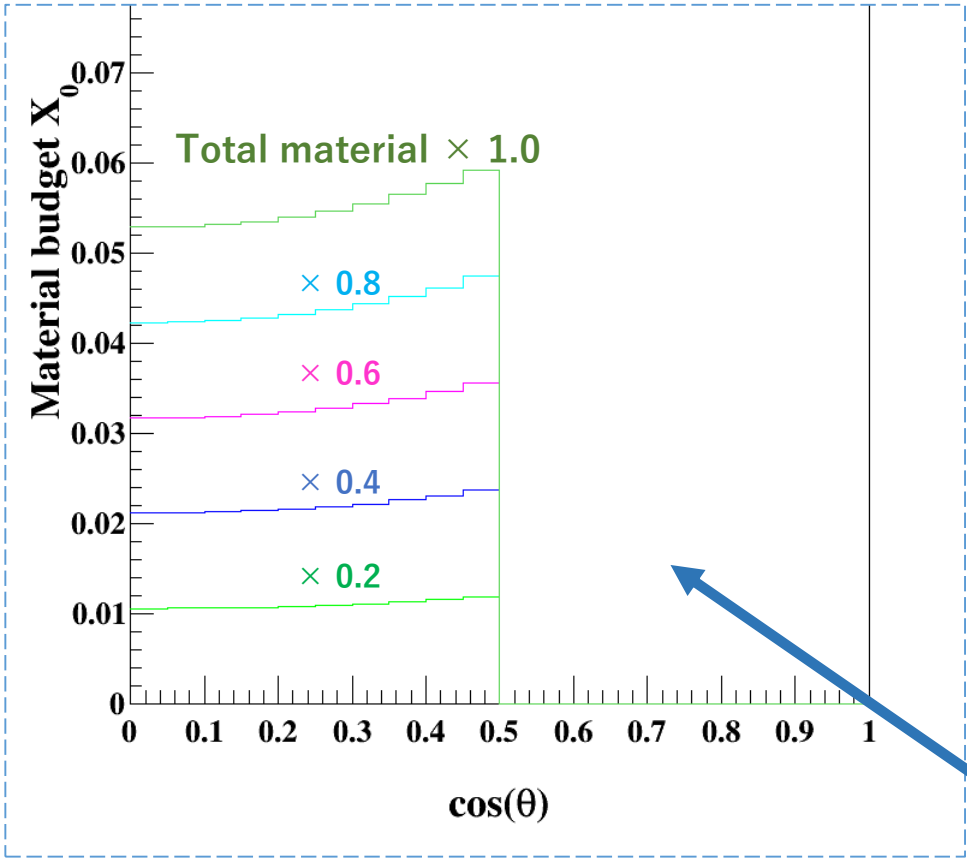
Material budget in LDT simulation



SDT config. with 2 DCHs



Momentum res. by changing total material budget



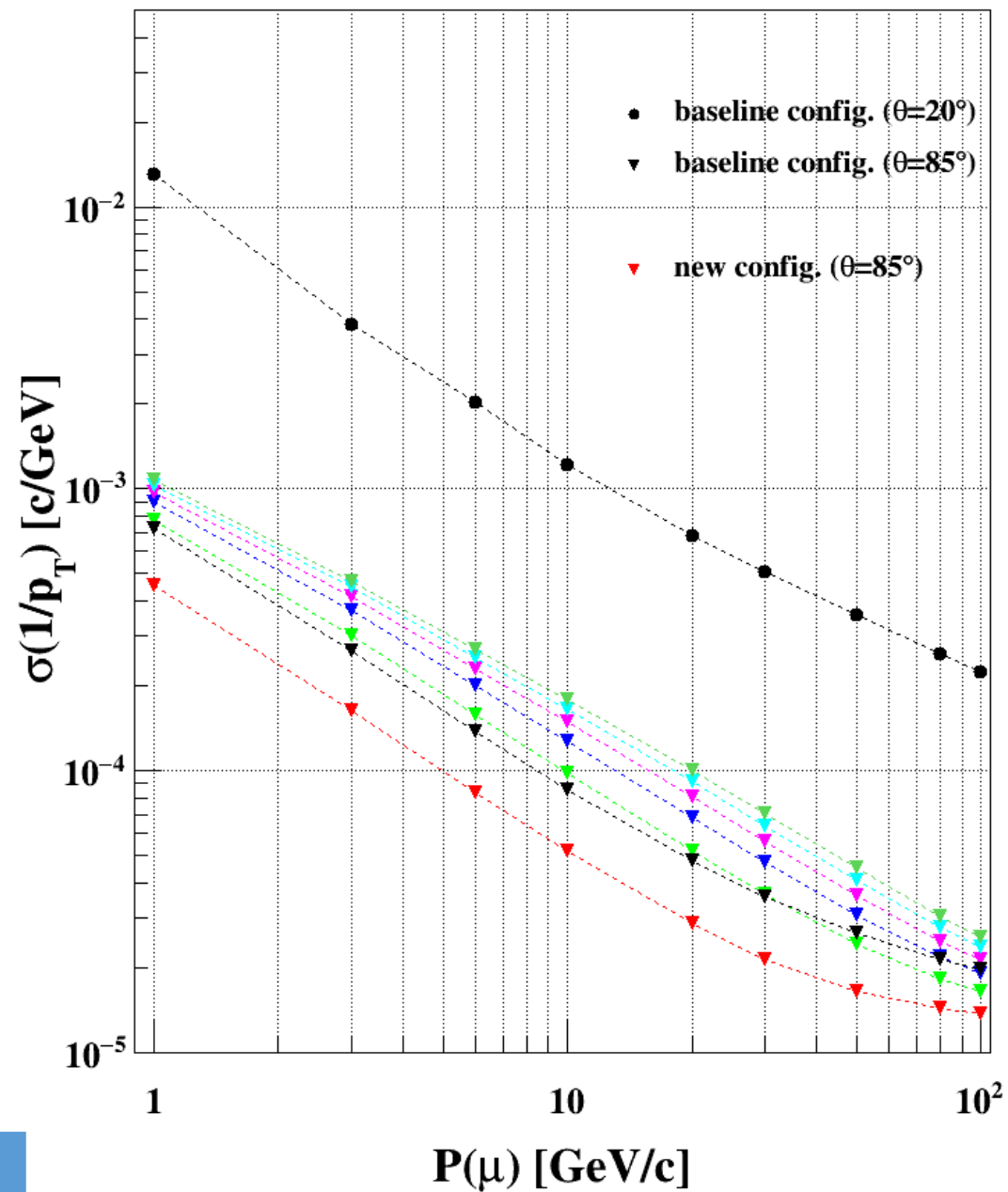
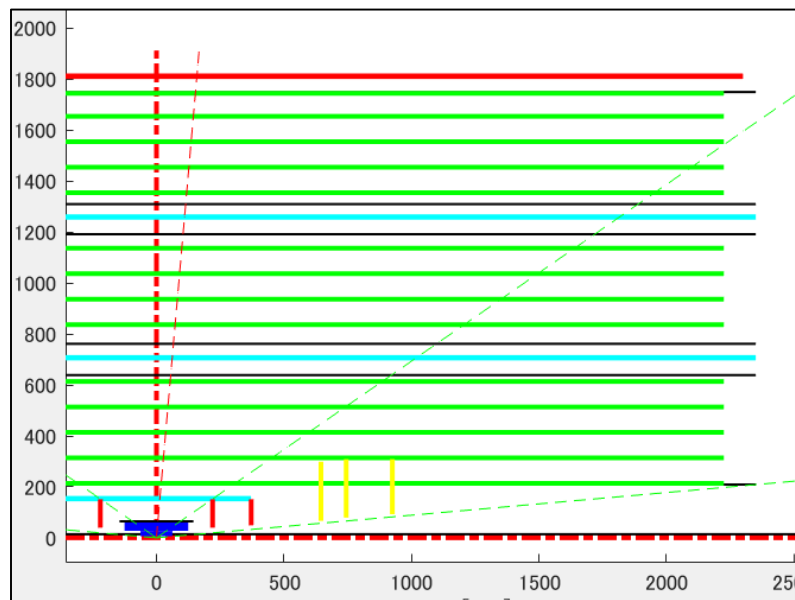
Total material budget ratio	0.0	0.2	0.4	0.6	0.8	1.0

Comments

- Material budget per double silicon layers in the SDT might be ~twice? larger than that of FST, just by looking the figures in the CDR.
- By reducing total material budget, such as 20% of the default one for 2 DCHs (SDT base config.), the momentum resolution will be close to that of the baseline configuration.
- Total material budget for the DCH walls is comparable level to that of SIT... reducing numbers of DCHs (or wall of DCHs) might help to improve the momentum resolution.

Ref:

-- SDT config. with 3 DCHs



Total material budget ratio	0.0	0.2	0.4	0.6	0.8	1.0
	▲	▲	▲	▲	▲	▲