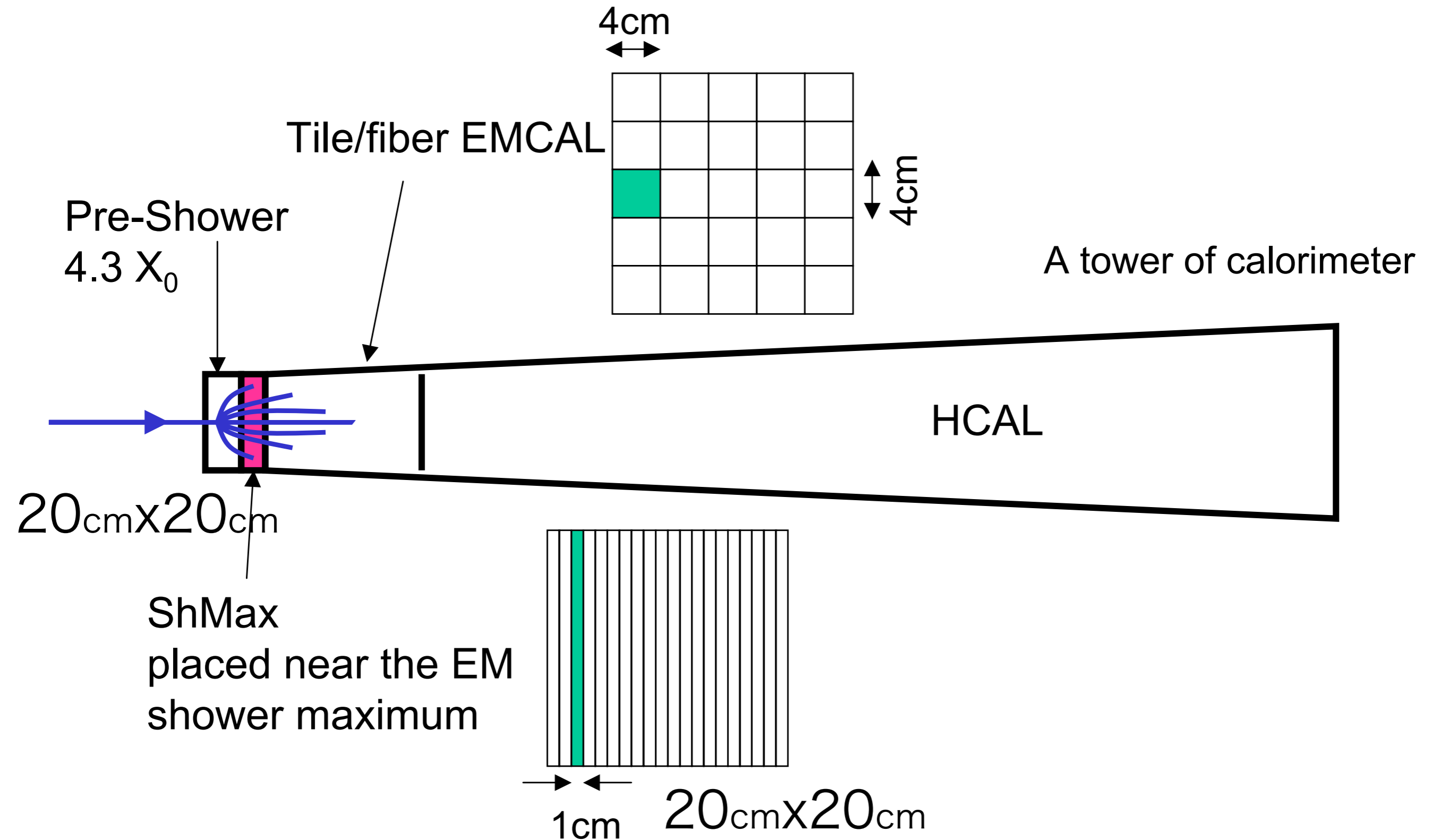


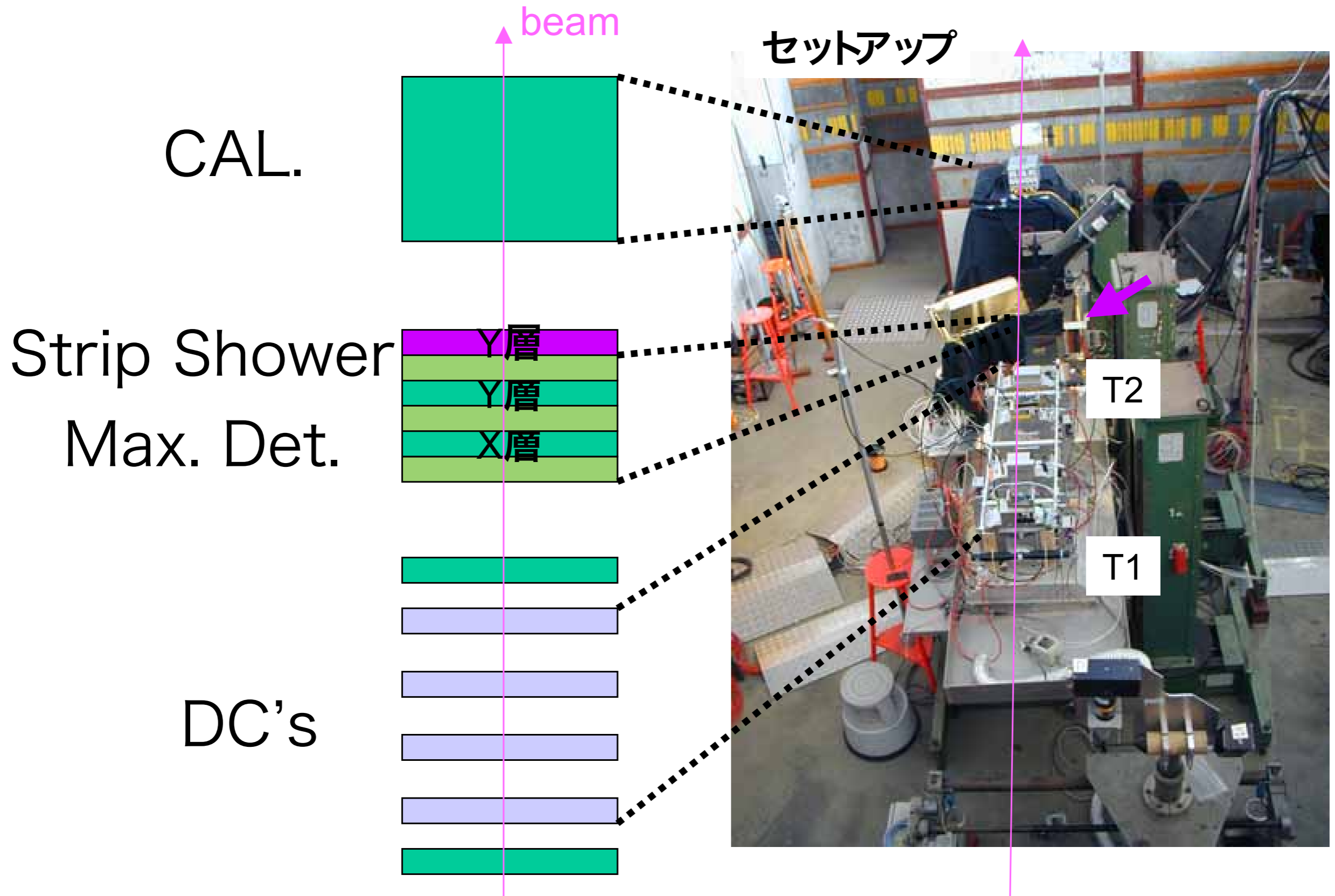
Strip-Shower MAX det. simulation

H.Oobe, S.Itoh and T.Takeshita
Shinshu Univ.

Strip Shower Max. Det.



Tests at DESY and KEK

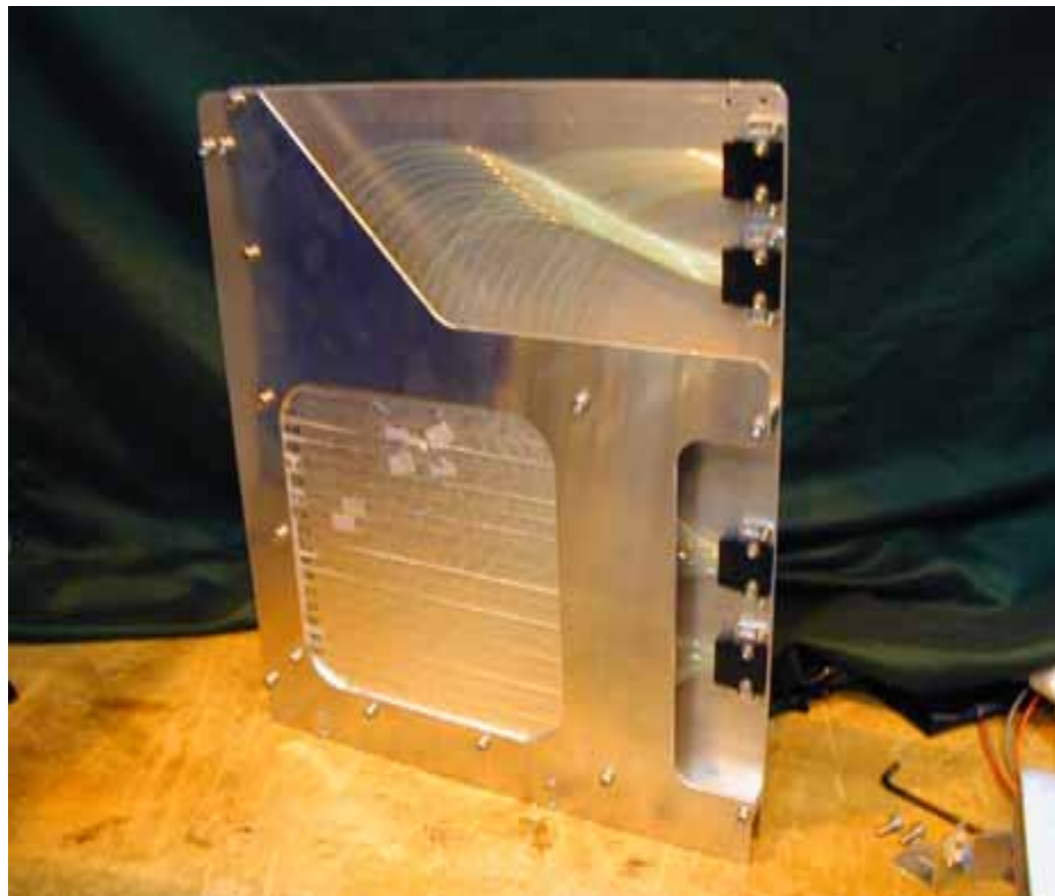


Strip Shower Max. Det.

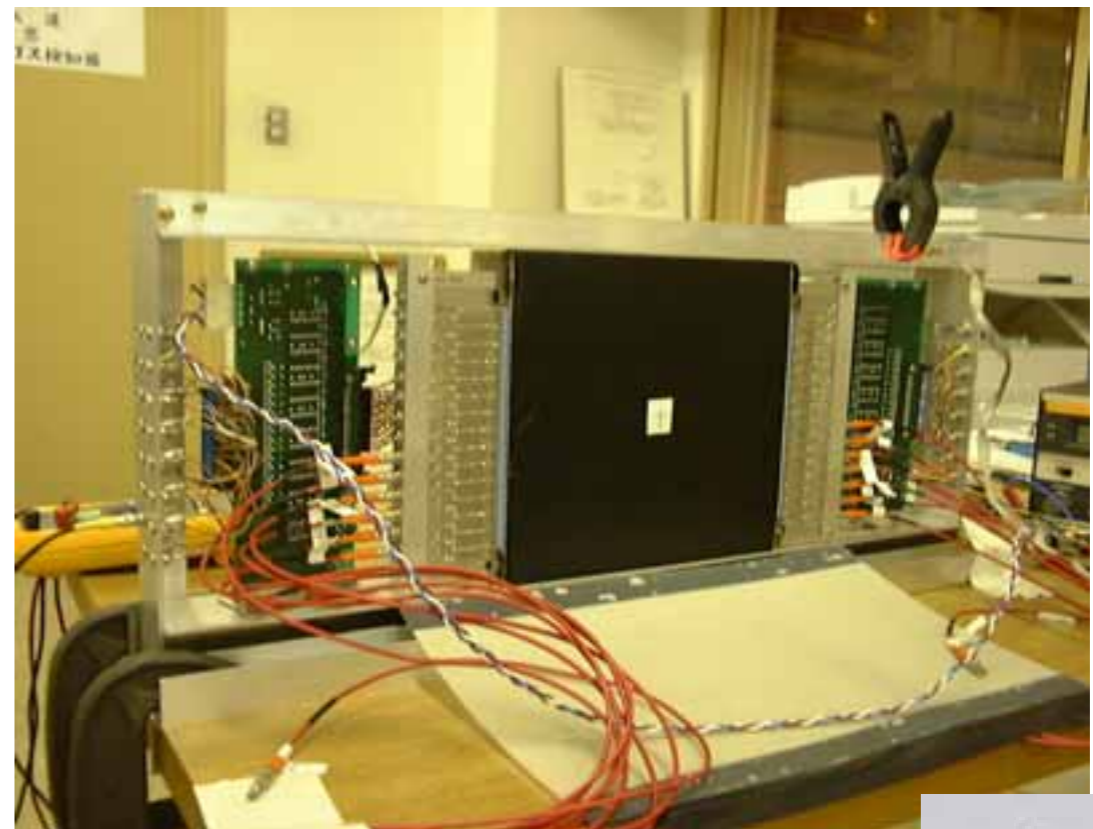
MAPMT type



APD type



2 layers



1 layer



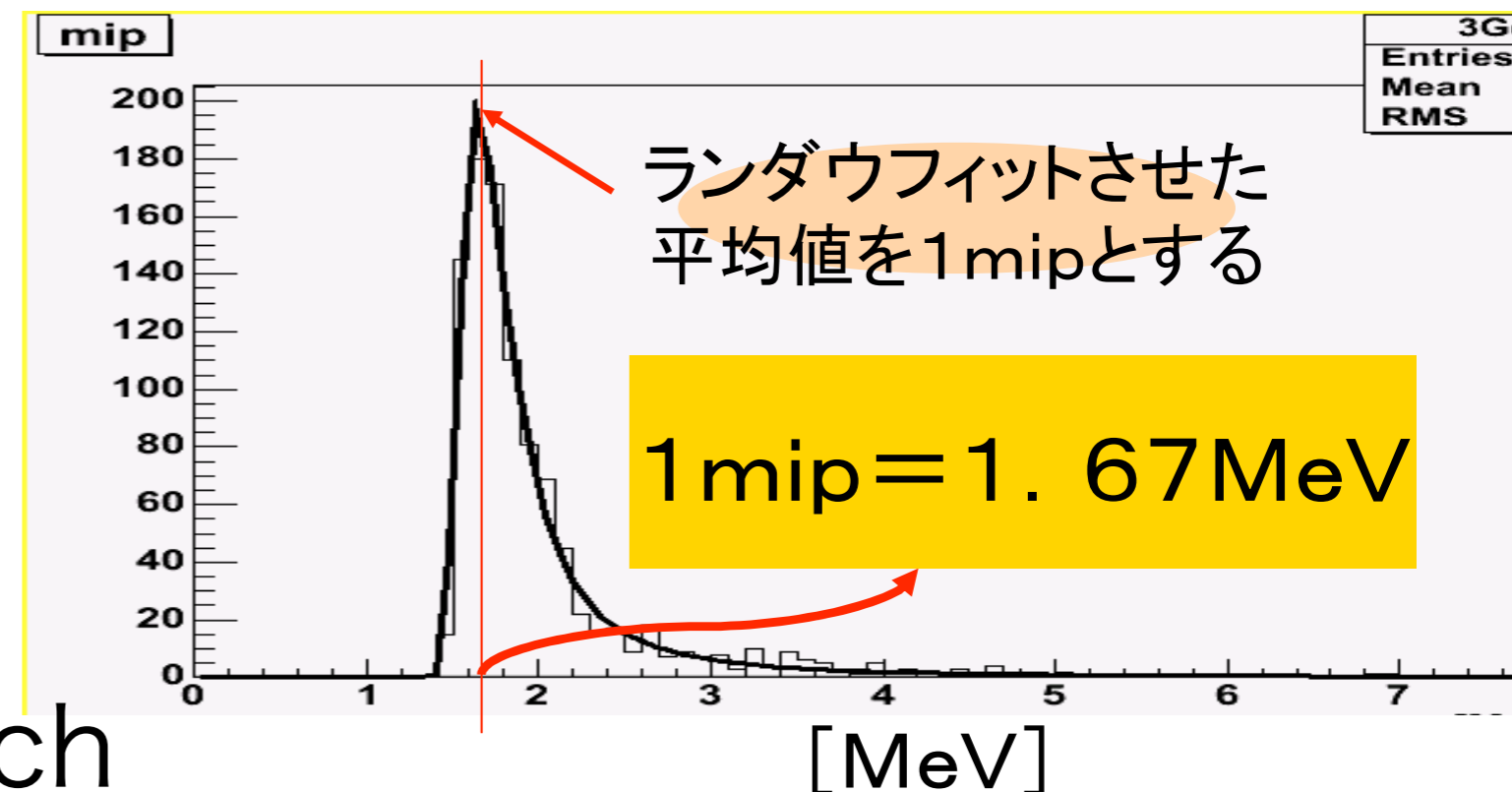
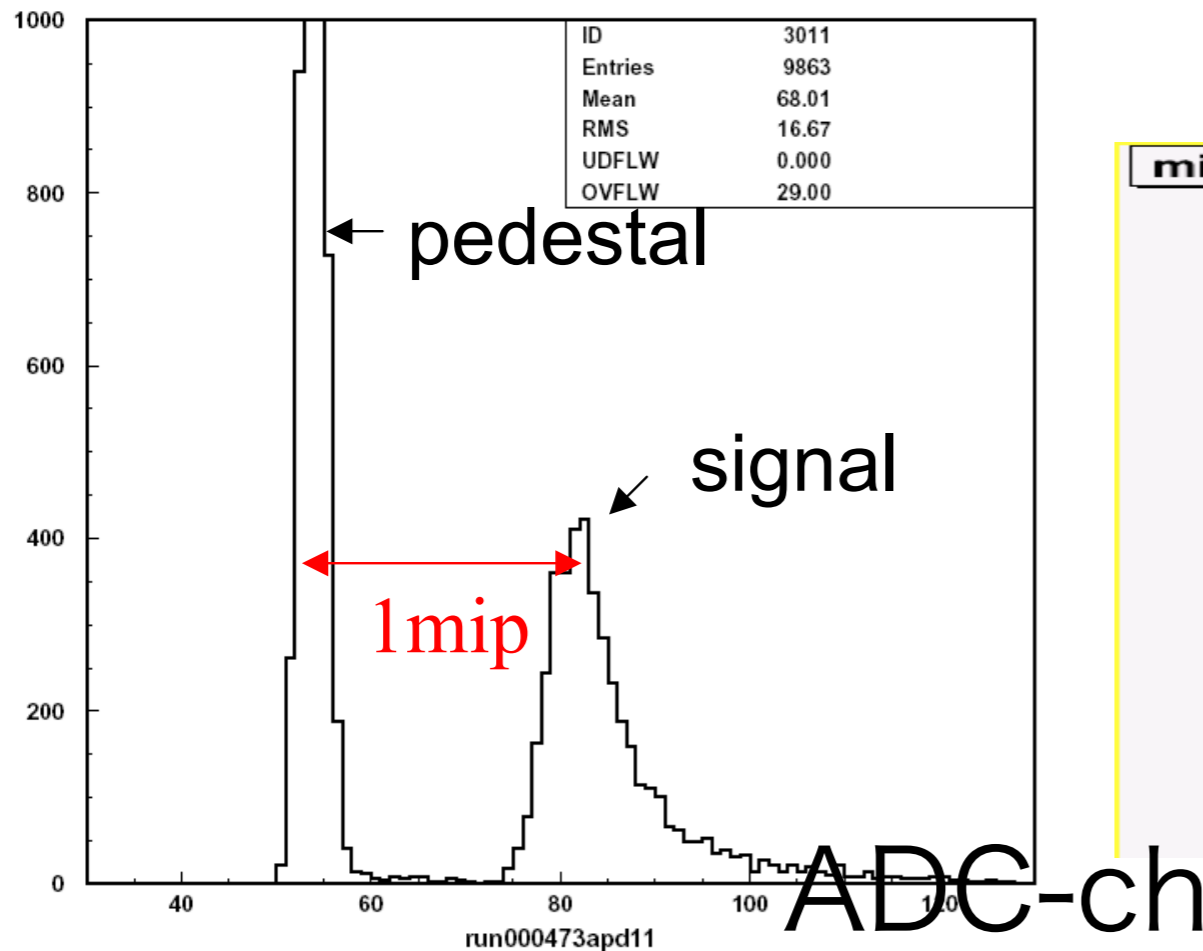
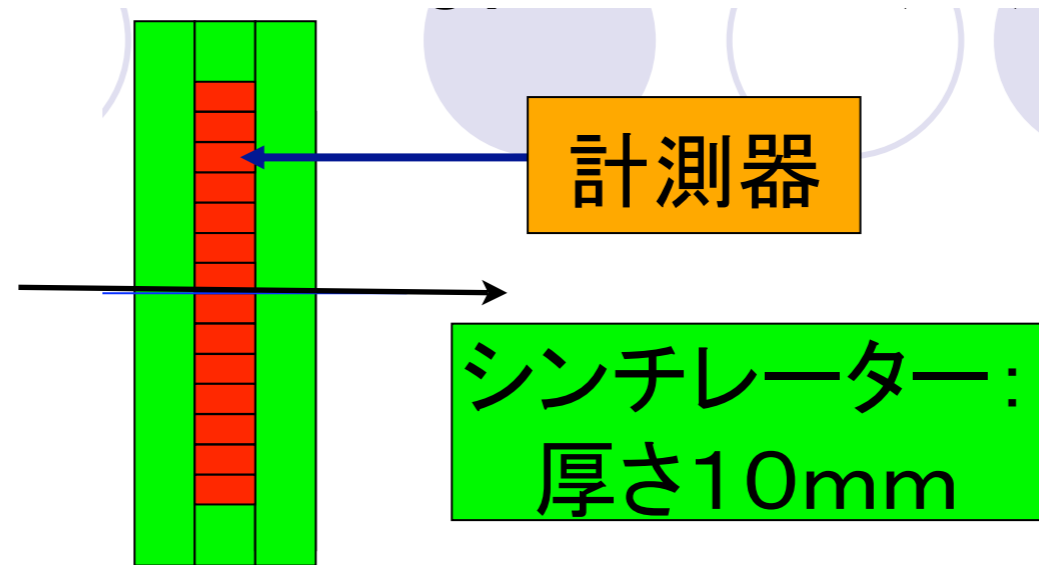
Calibration

MIP unit

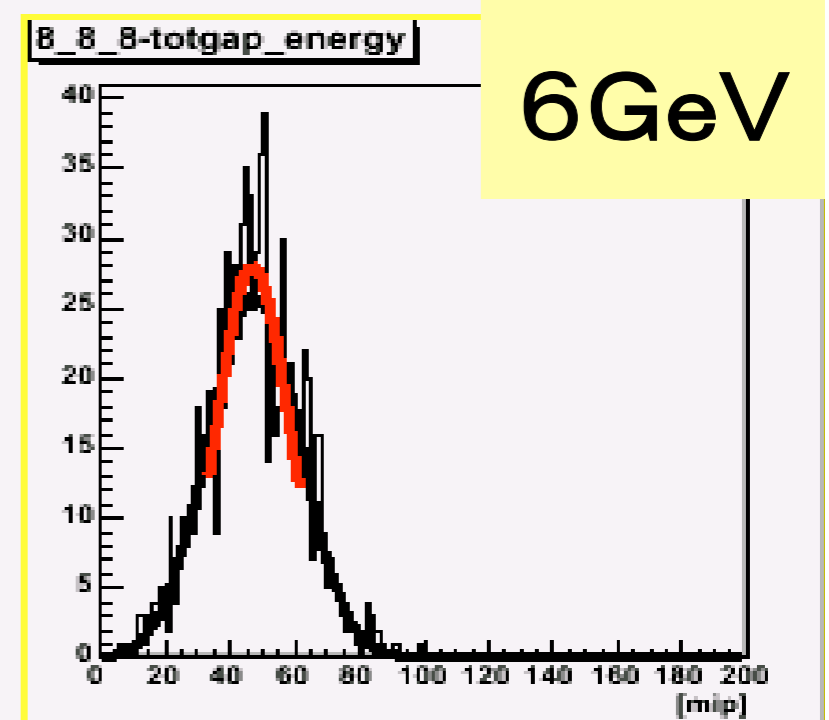
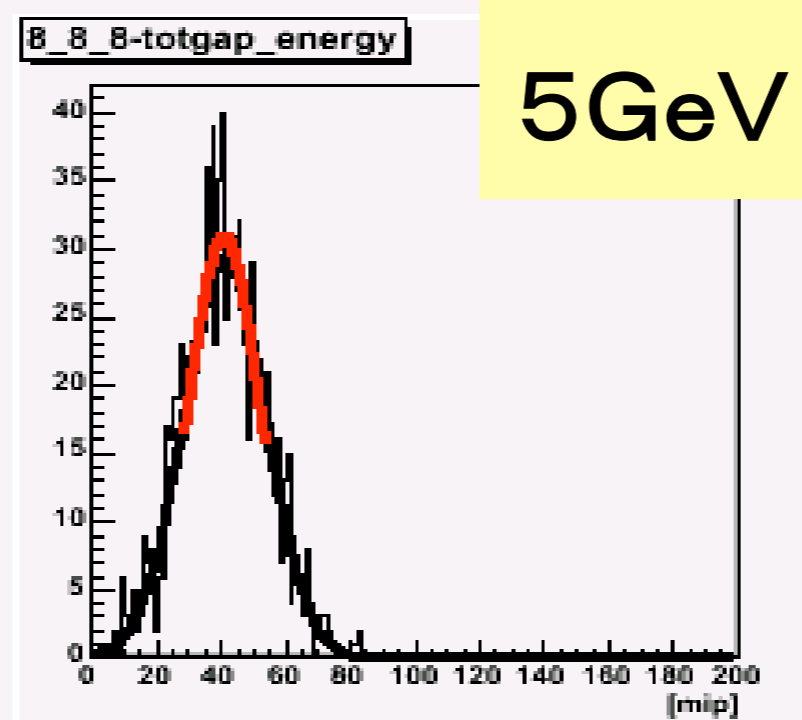
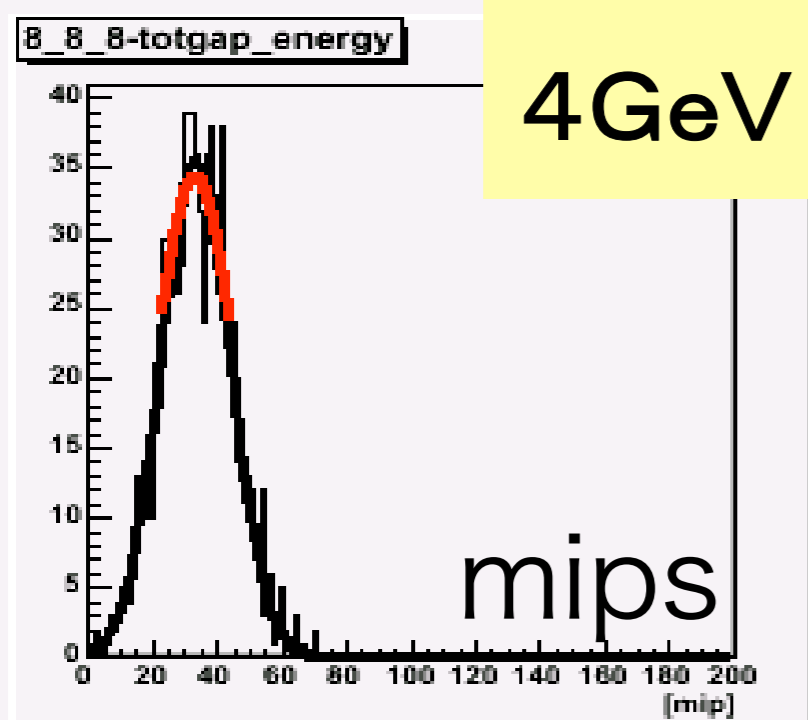
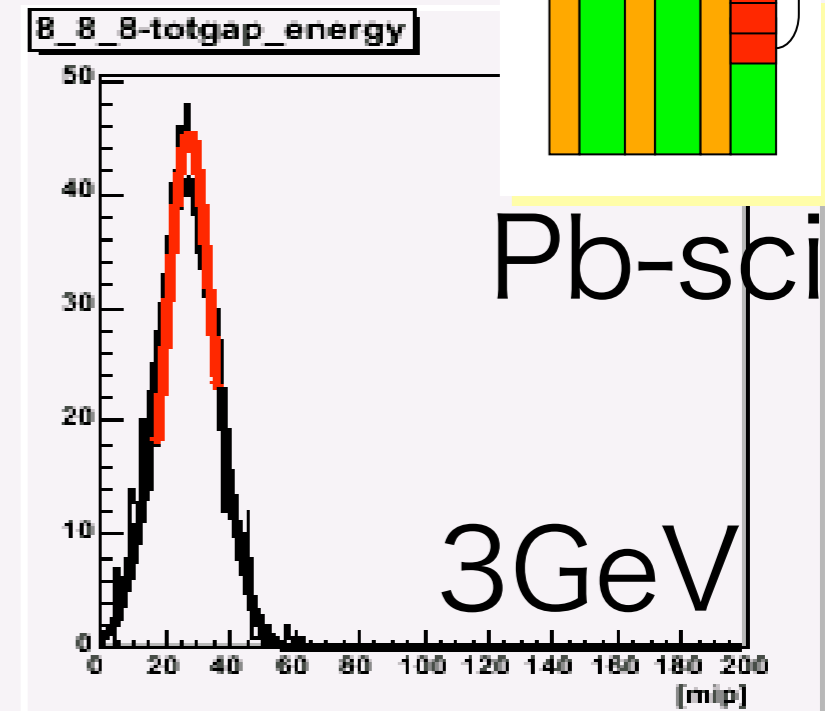
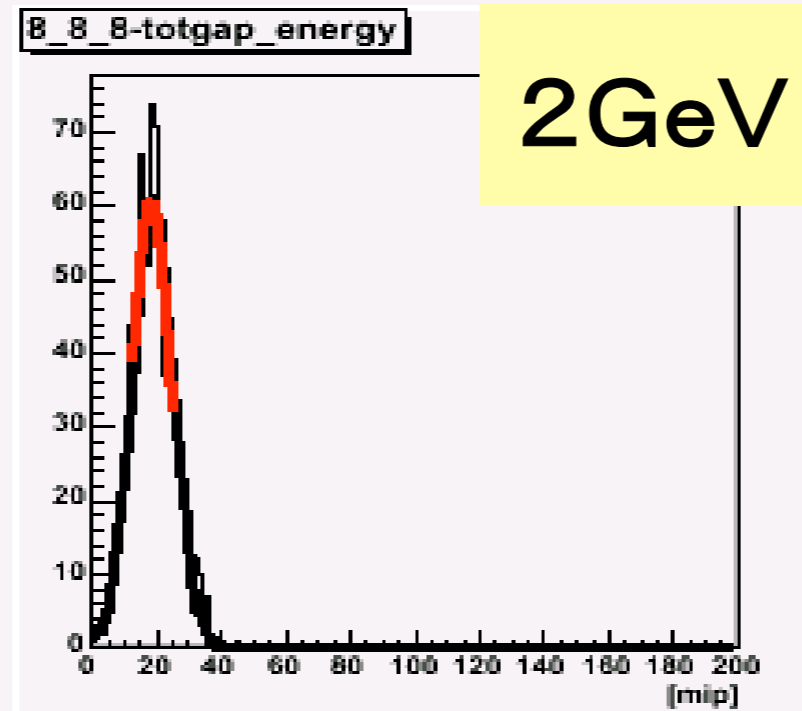
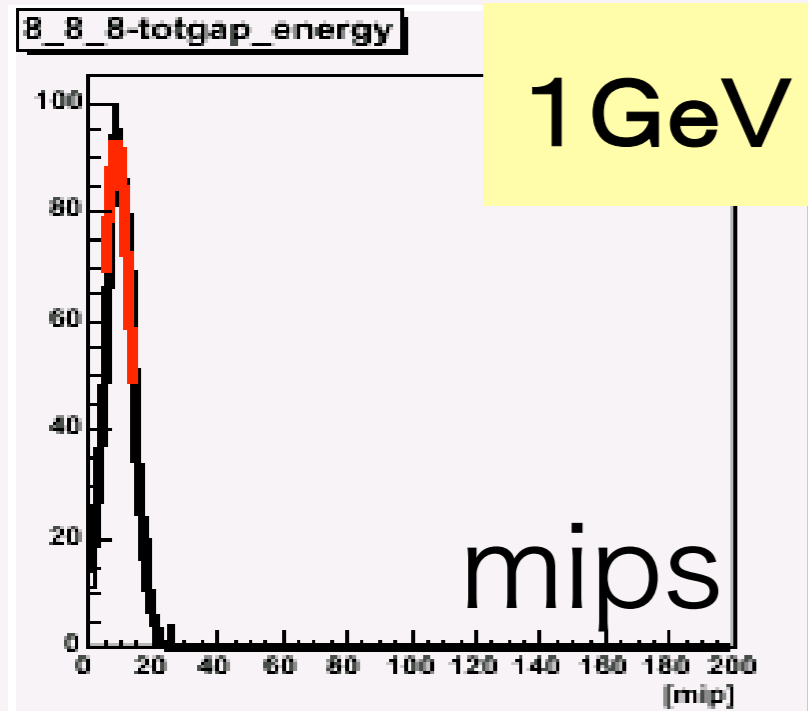
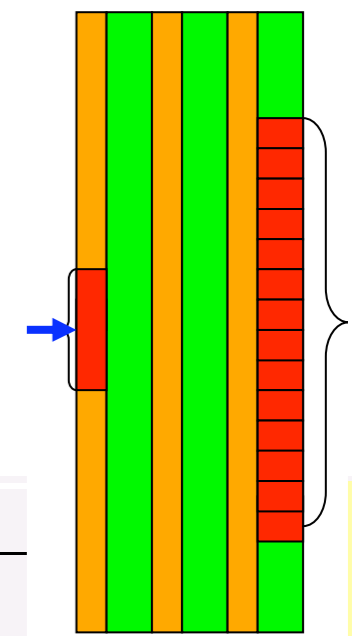
Beam test

3GeV electron

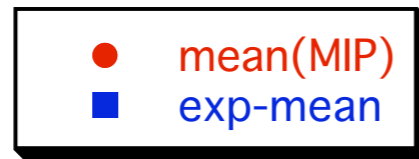
Simulation



simulation results: Energy distribution

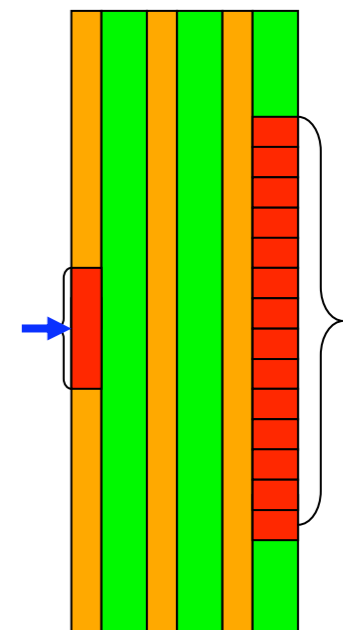
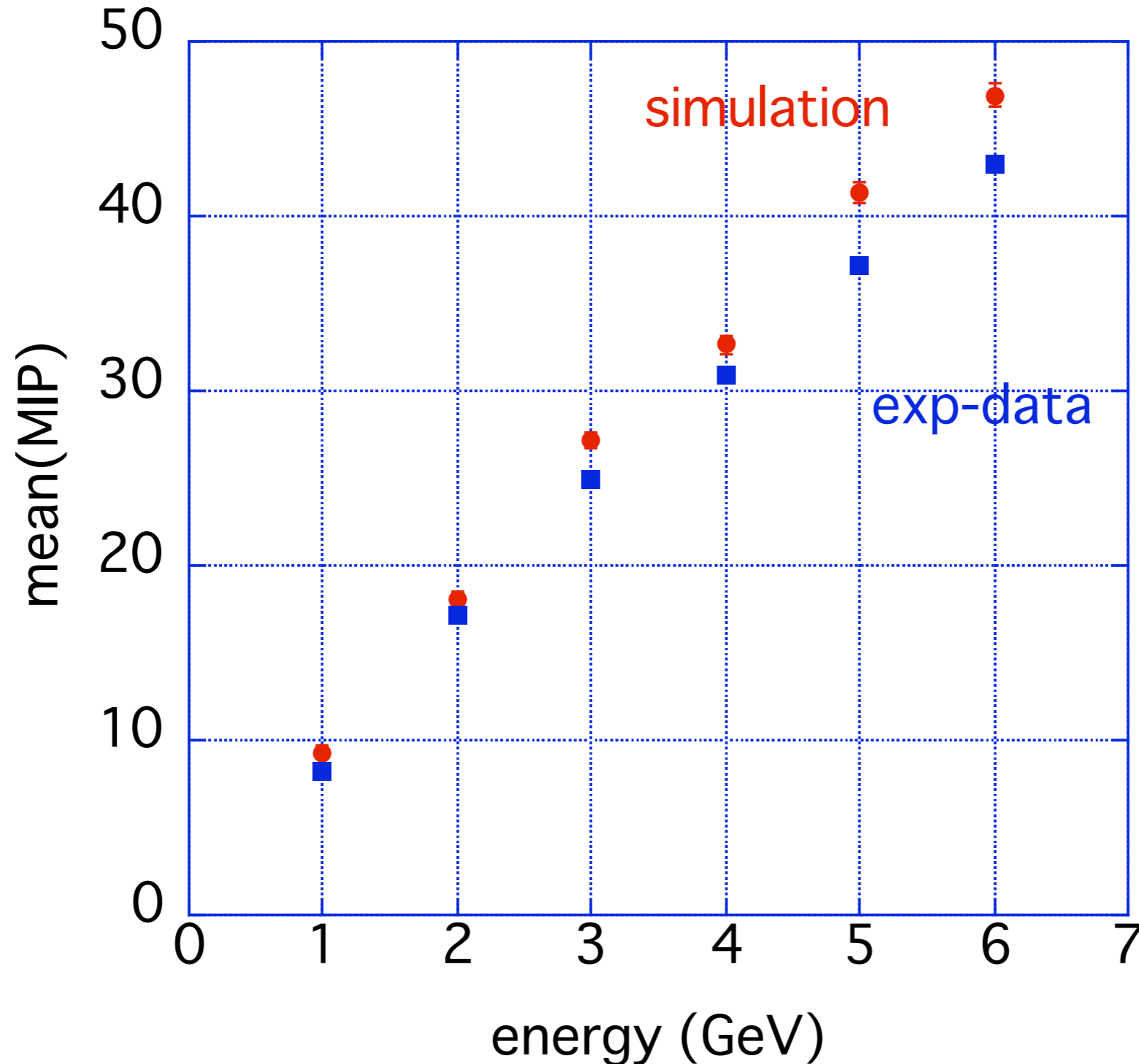


comparison: energy dist.

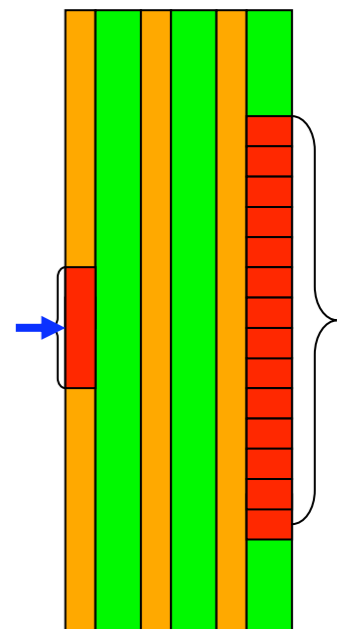
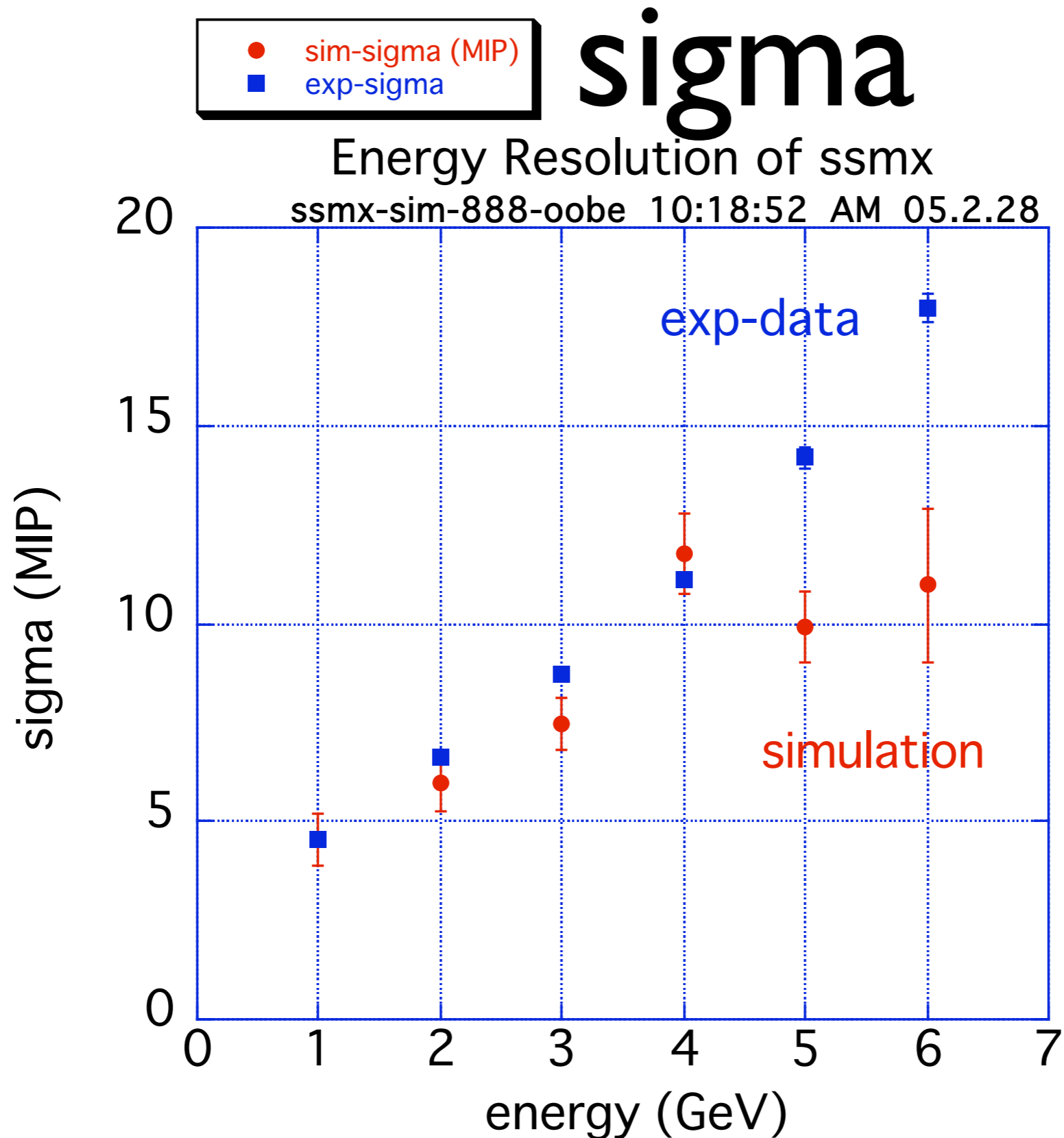


Range cutoff=0.0003mm

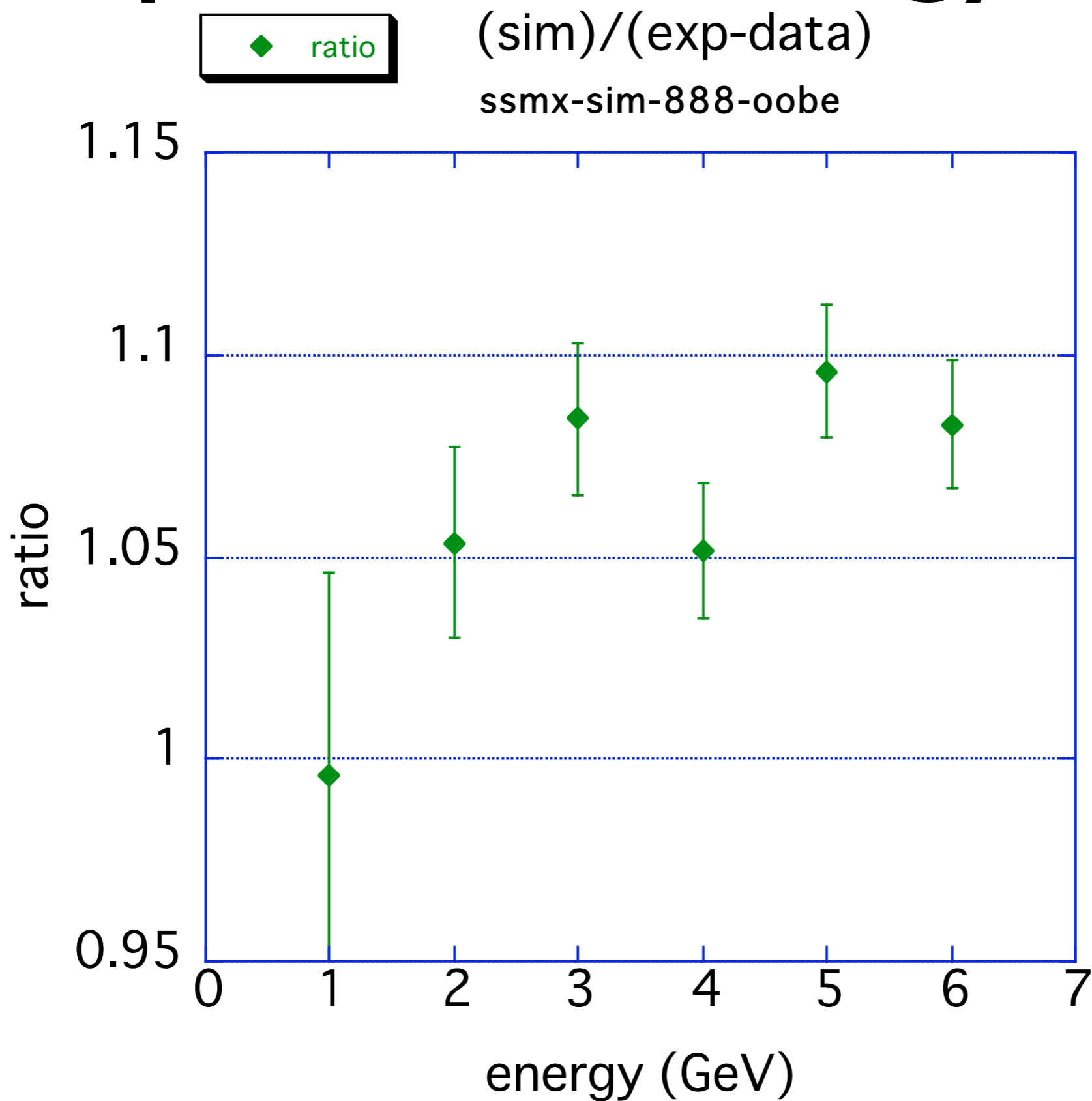
ssmx-sim-888-oobe 9:41:08 PM 05.2.26



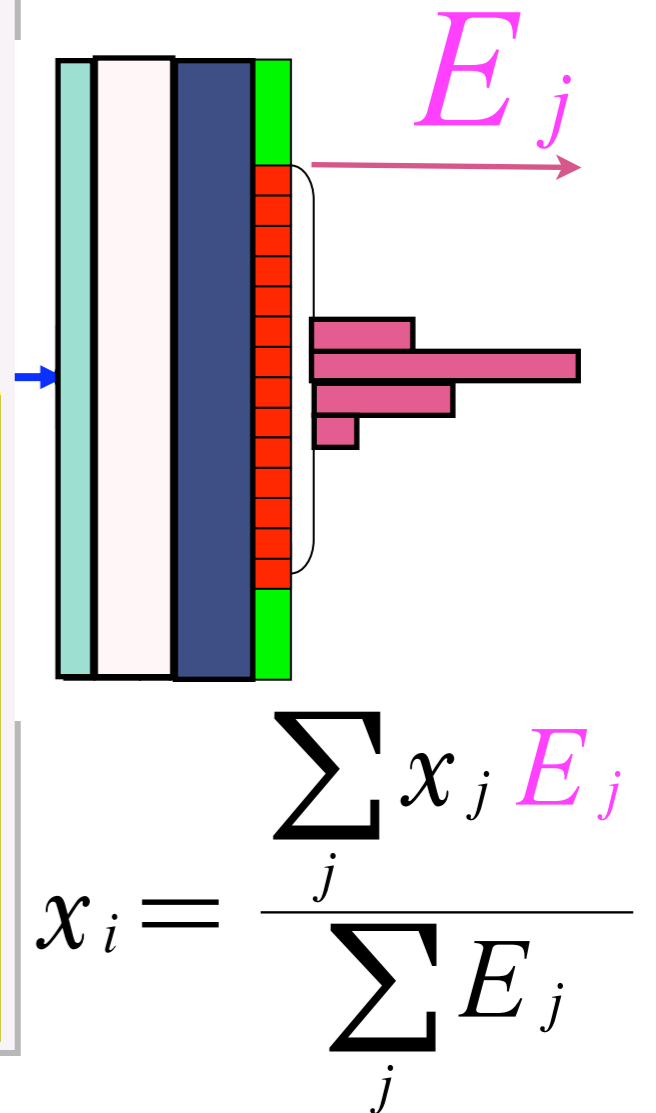
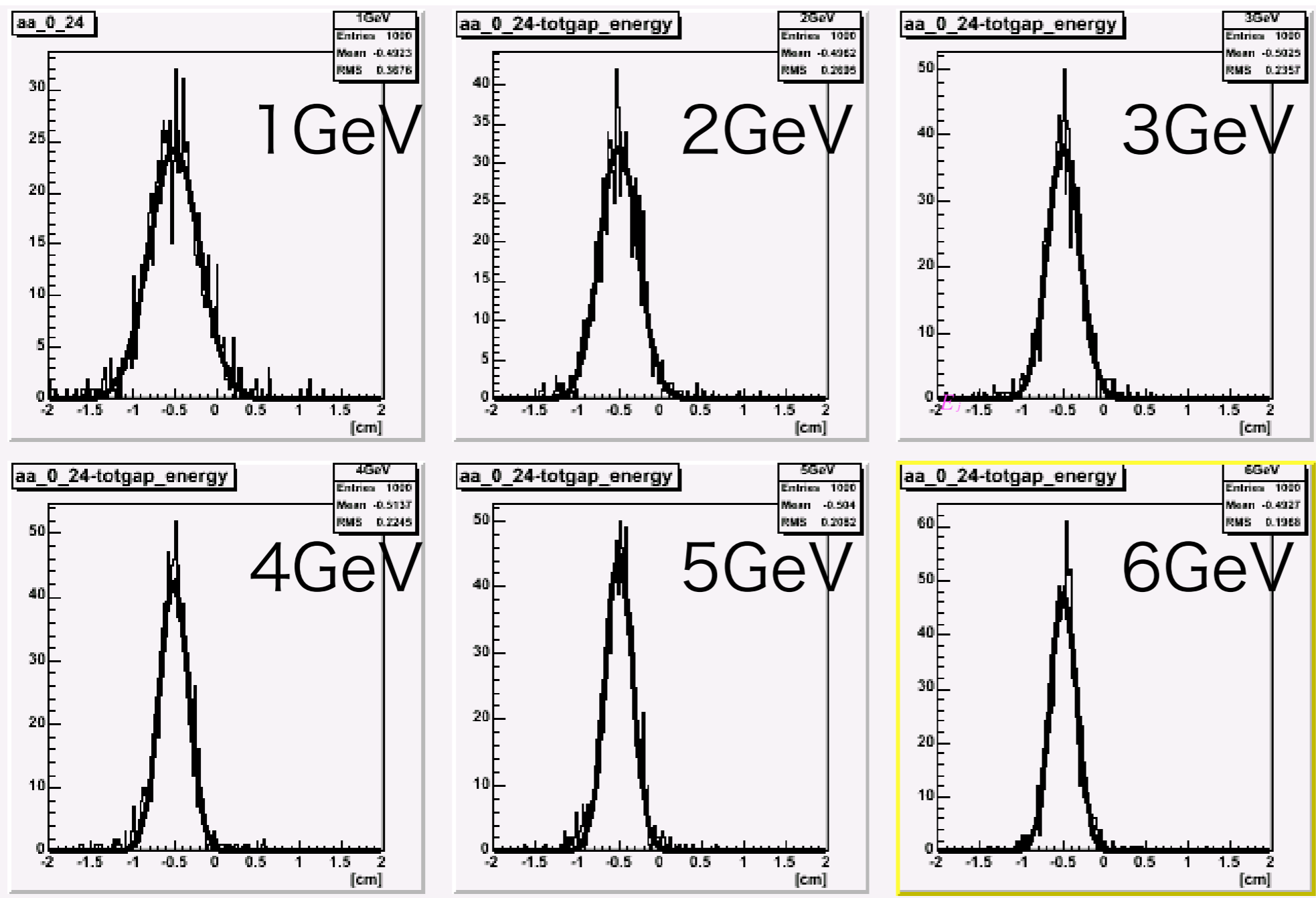
comparison: energy dist.-



comparison: energy ratio

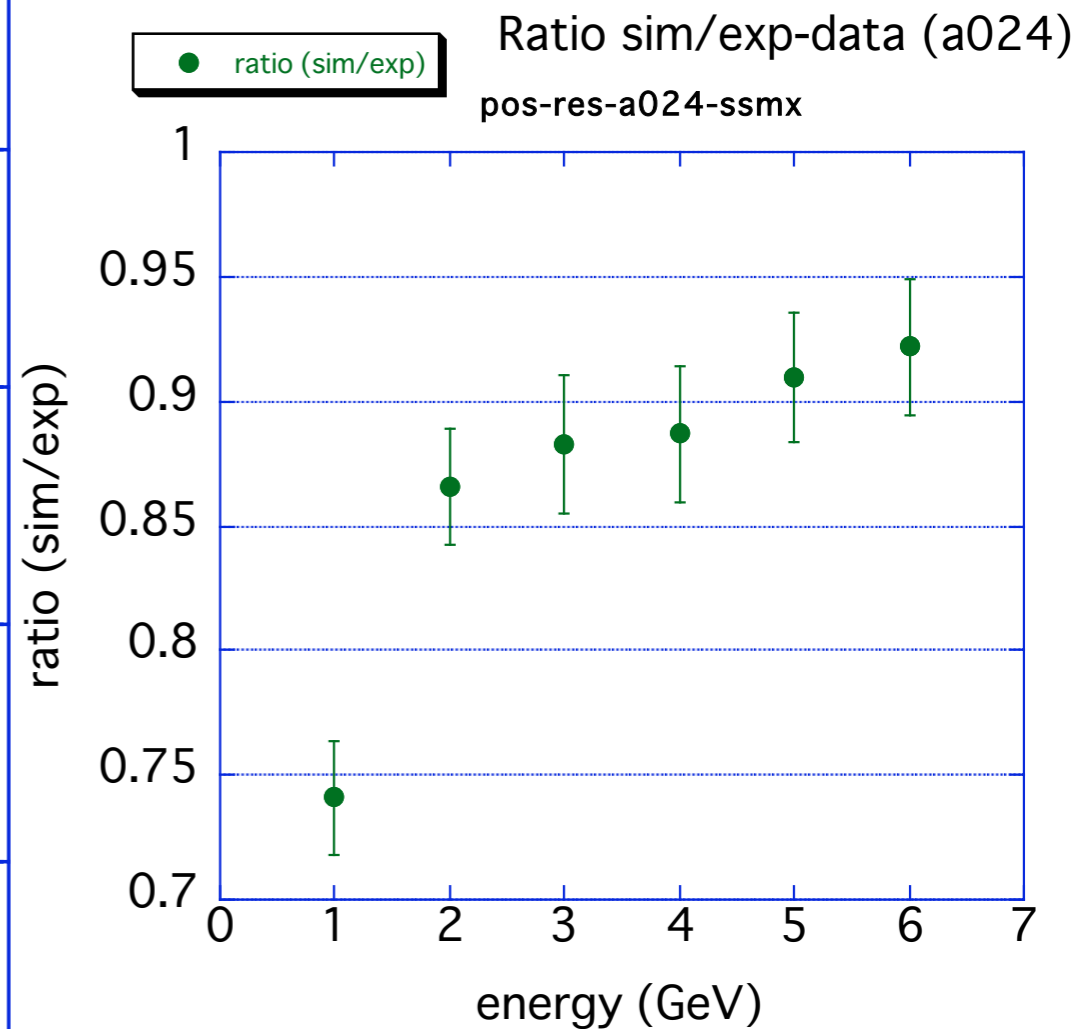
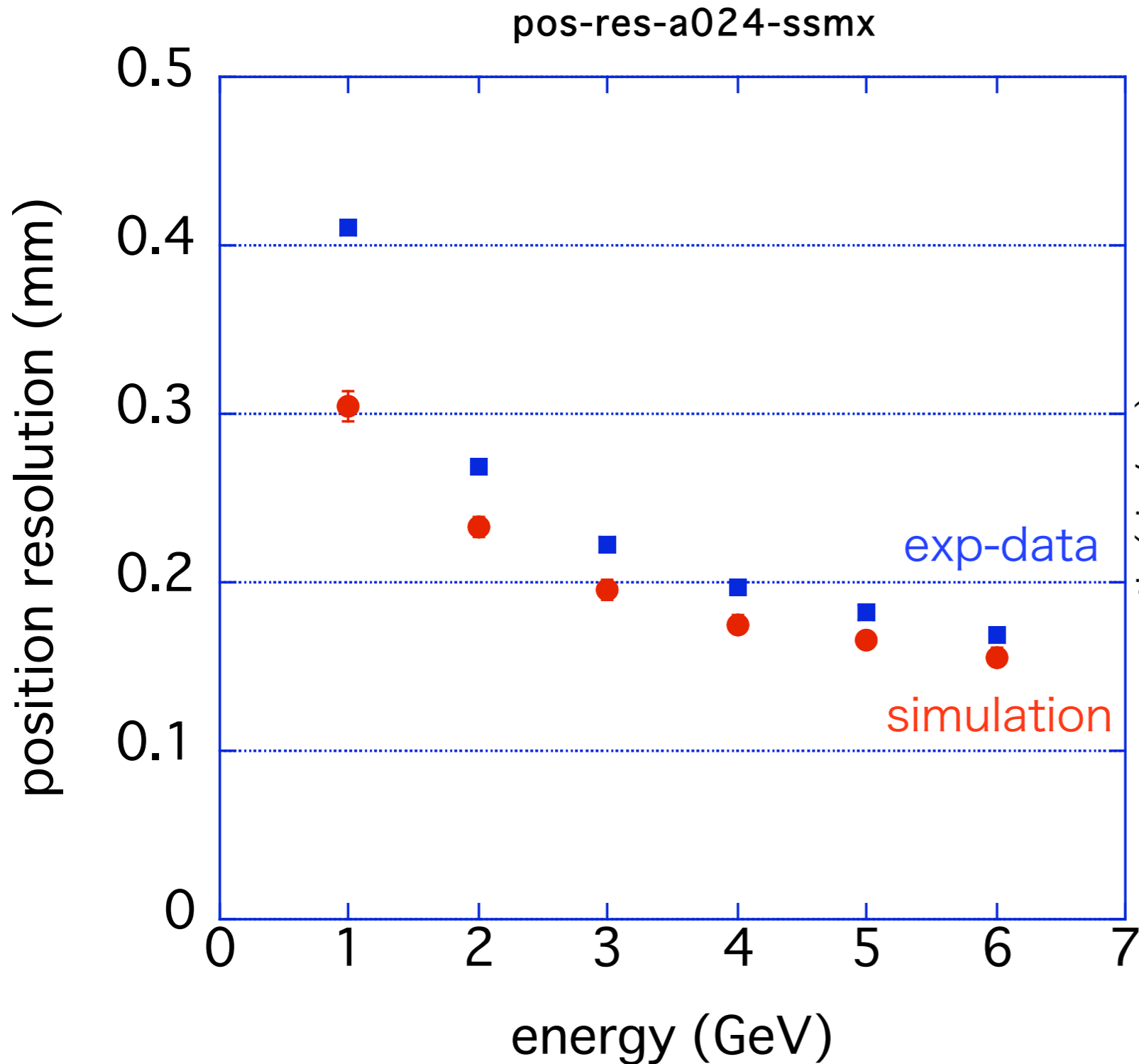


comparison: spatial res.

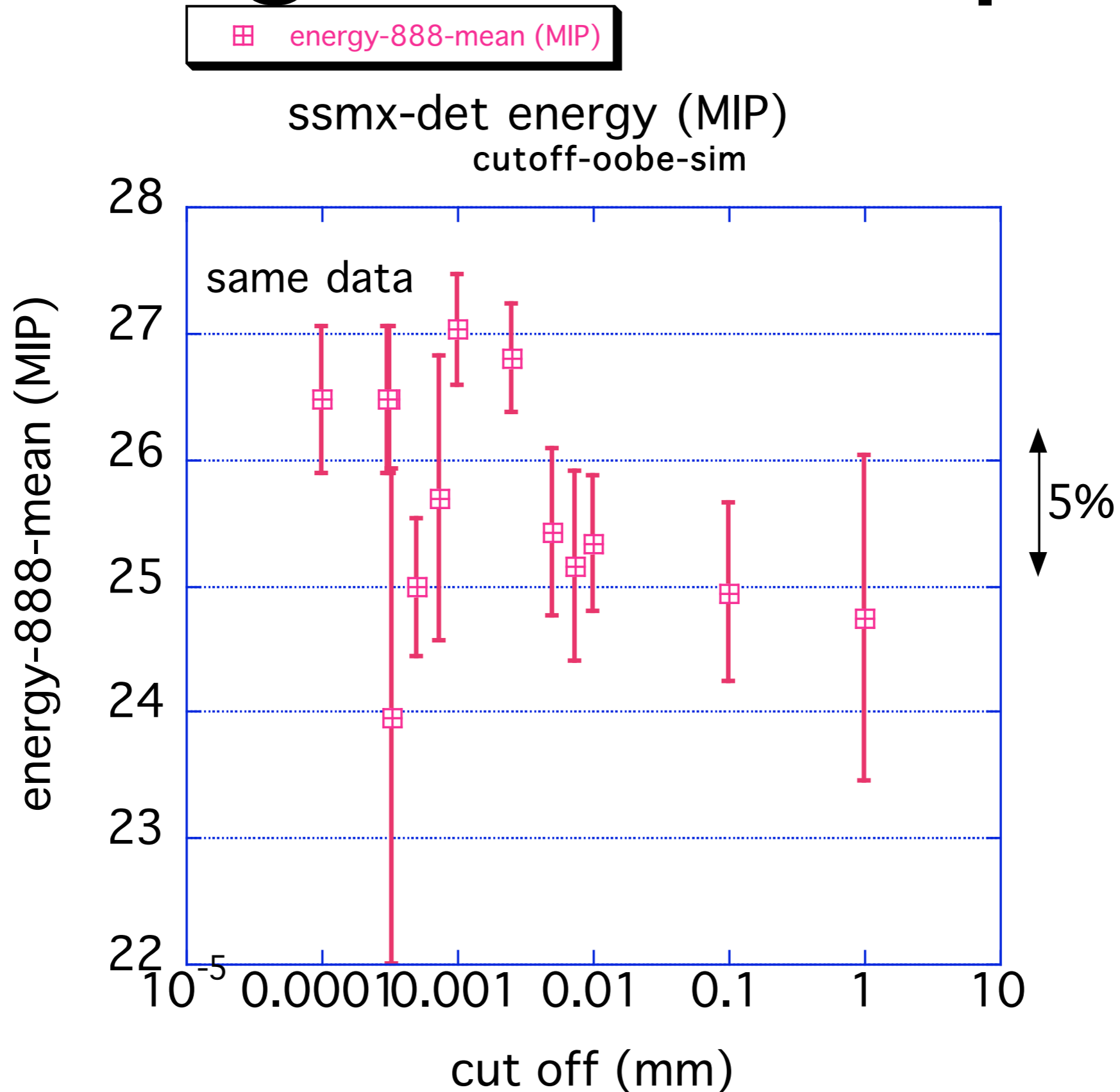


a024

comparison: spatial res.



range cut off dep.



summary

SSMX-simulation (EM-shower)

$E(\text{simulation}) > E(\text{exp.})$ by 5-10%

need more effort

gap between strips

gap between absorber and scinti.

pedestal width