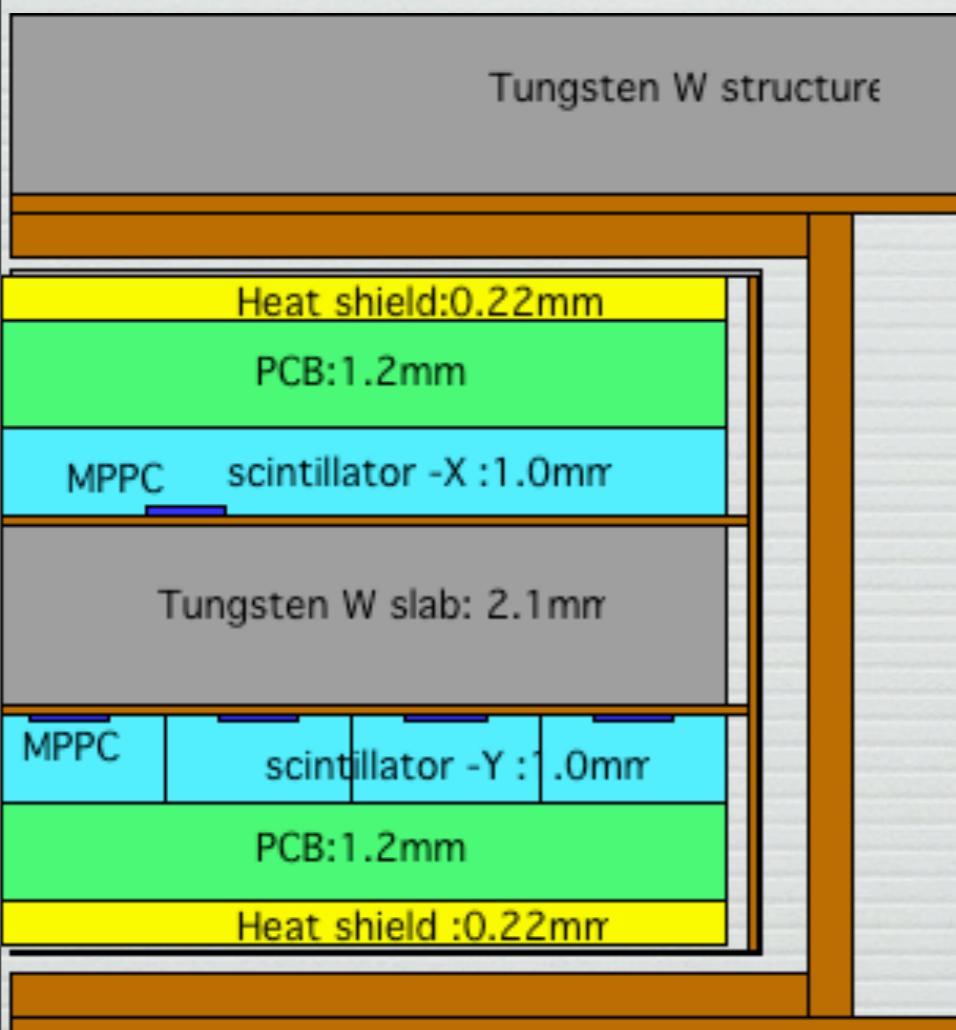


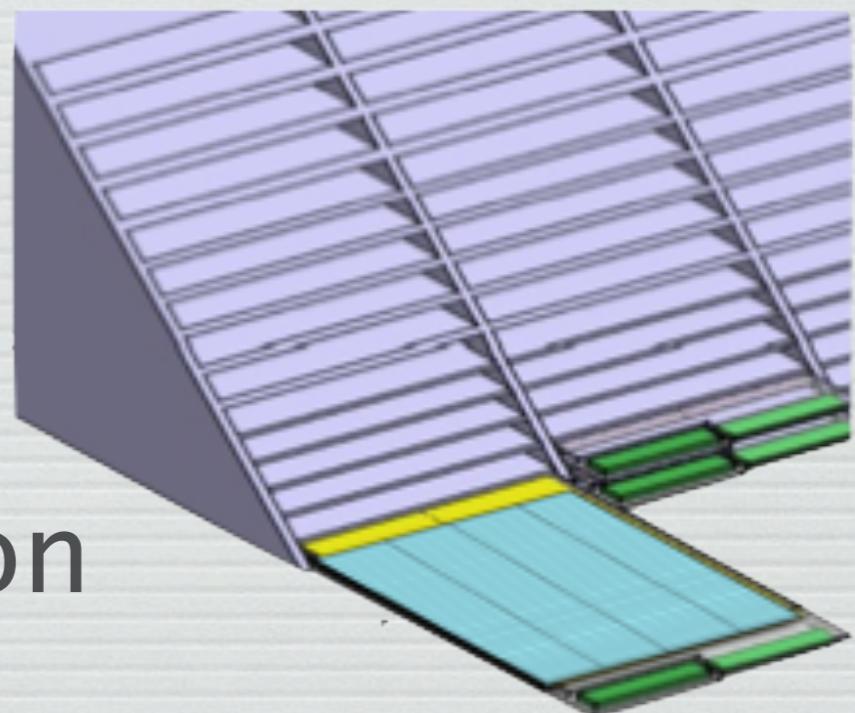
ScECAL

status & plan

T.Takeshita (Shinshu)



design
performance
mass-production



ICEPP(Ootani)+KNU
+Shinshu+Tsukuba

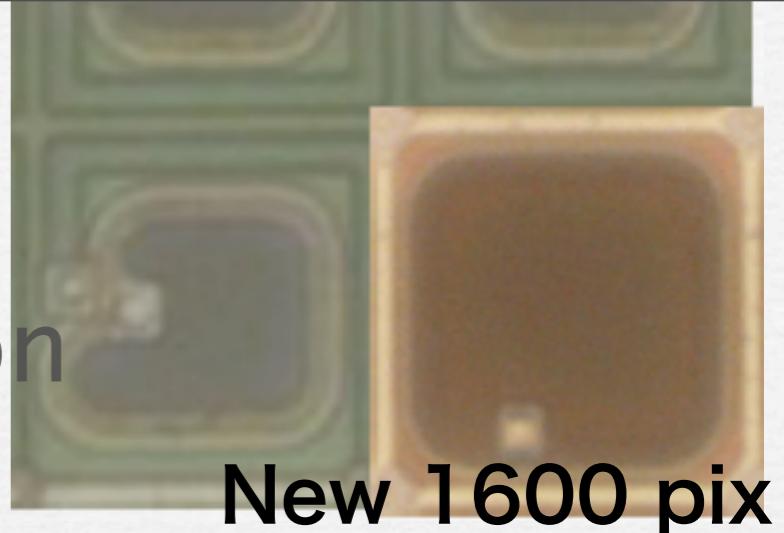
design: EBU &...

- ~ Alveola and other mechanical structure
 - ~ we follow silicon activities
- ~ FrontEnd Redan out : EBU
 - ~ SPIROC from Ω group
 - ~ we follow DESY activities
- ~ DAQ ??? < the current problem

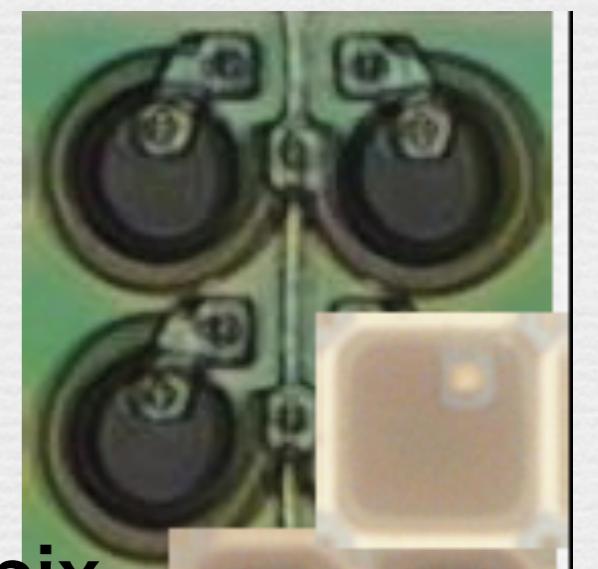
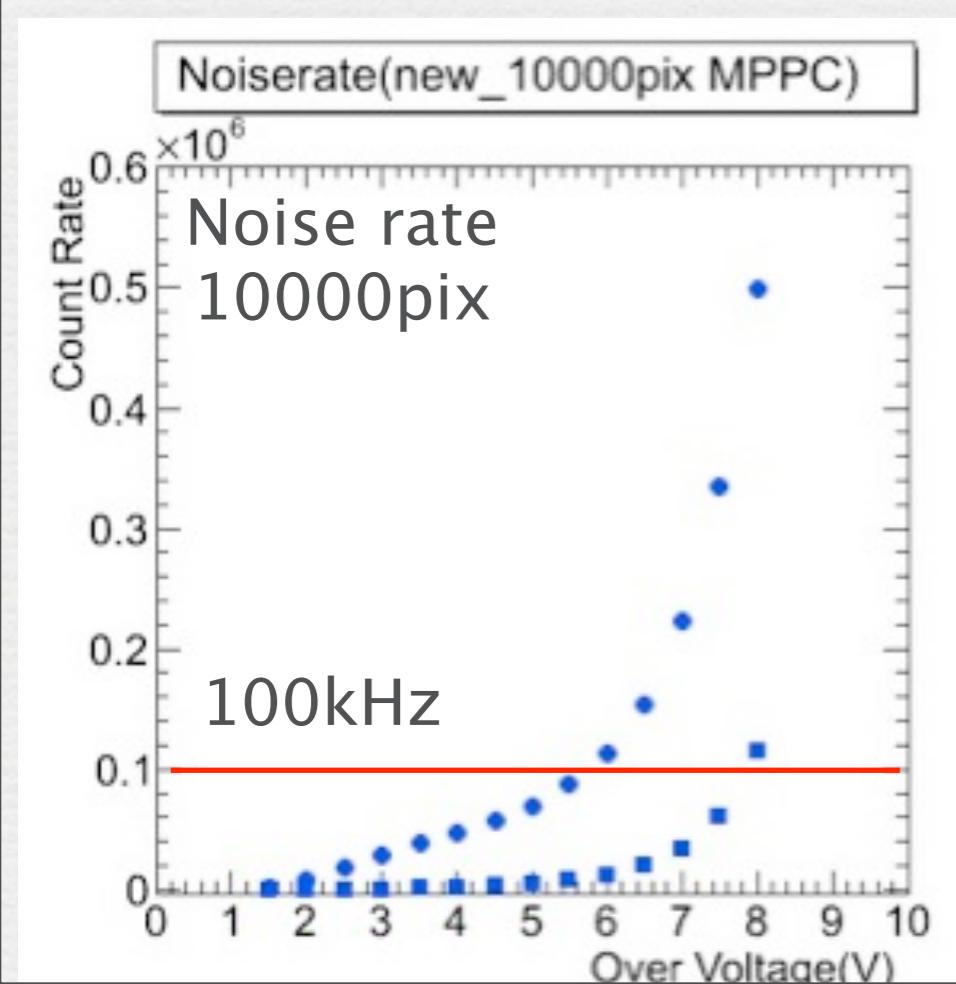
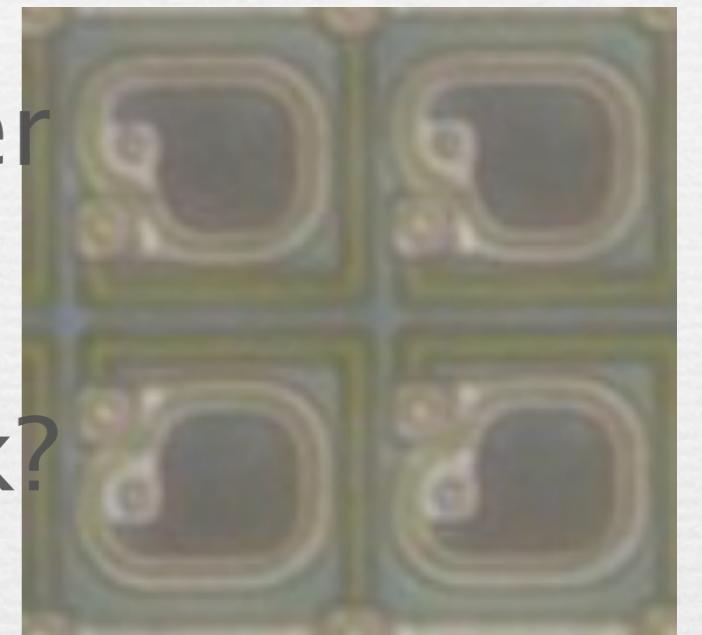


design-MPPC

- ~ MPPC can be improved, depending on our requests
- ~ 10000pixels in 1mmx1mm with bigger PDE is available
- ~ lower noise achieved, lower cross talk?



New 1600 pix



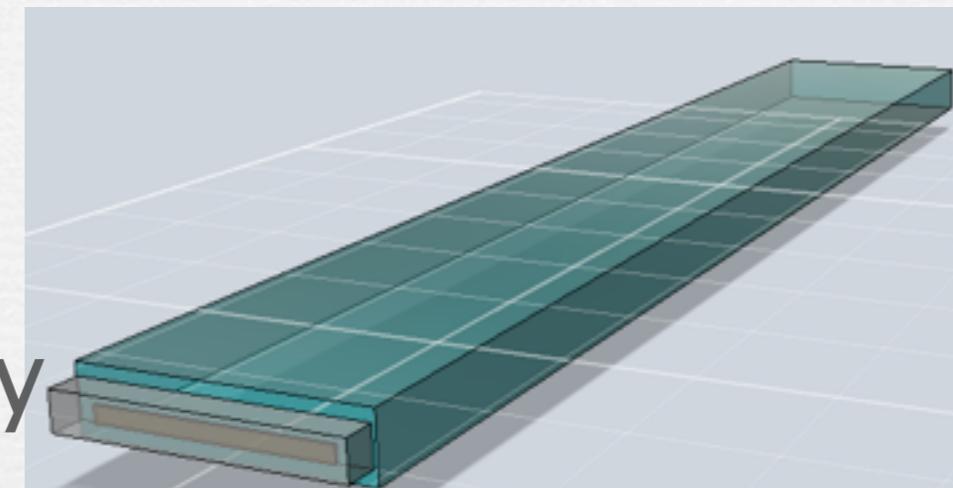
New 4400 pix

10000 pix with new technology

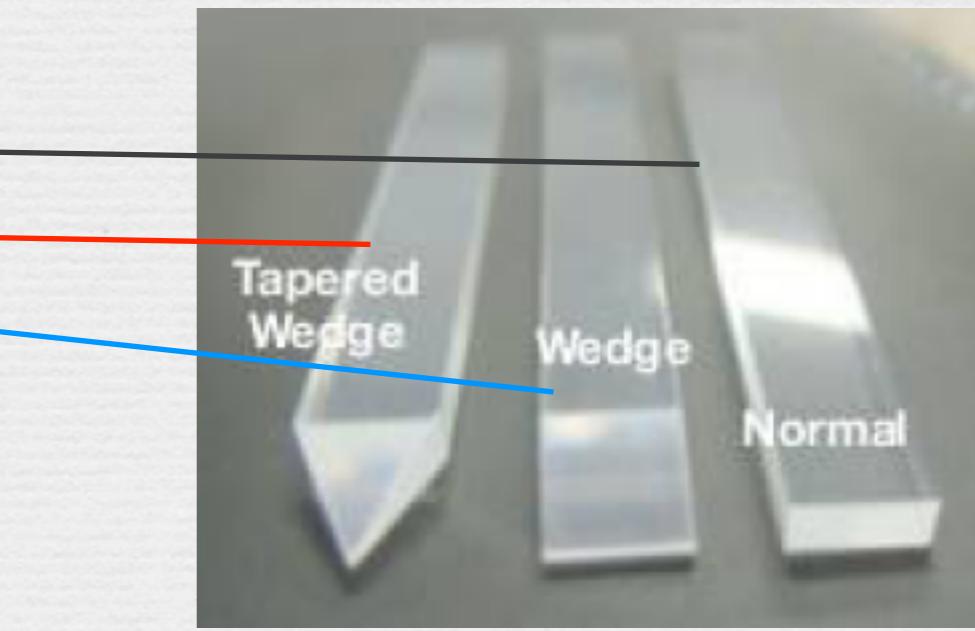
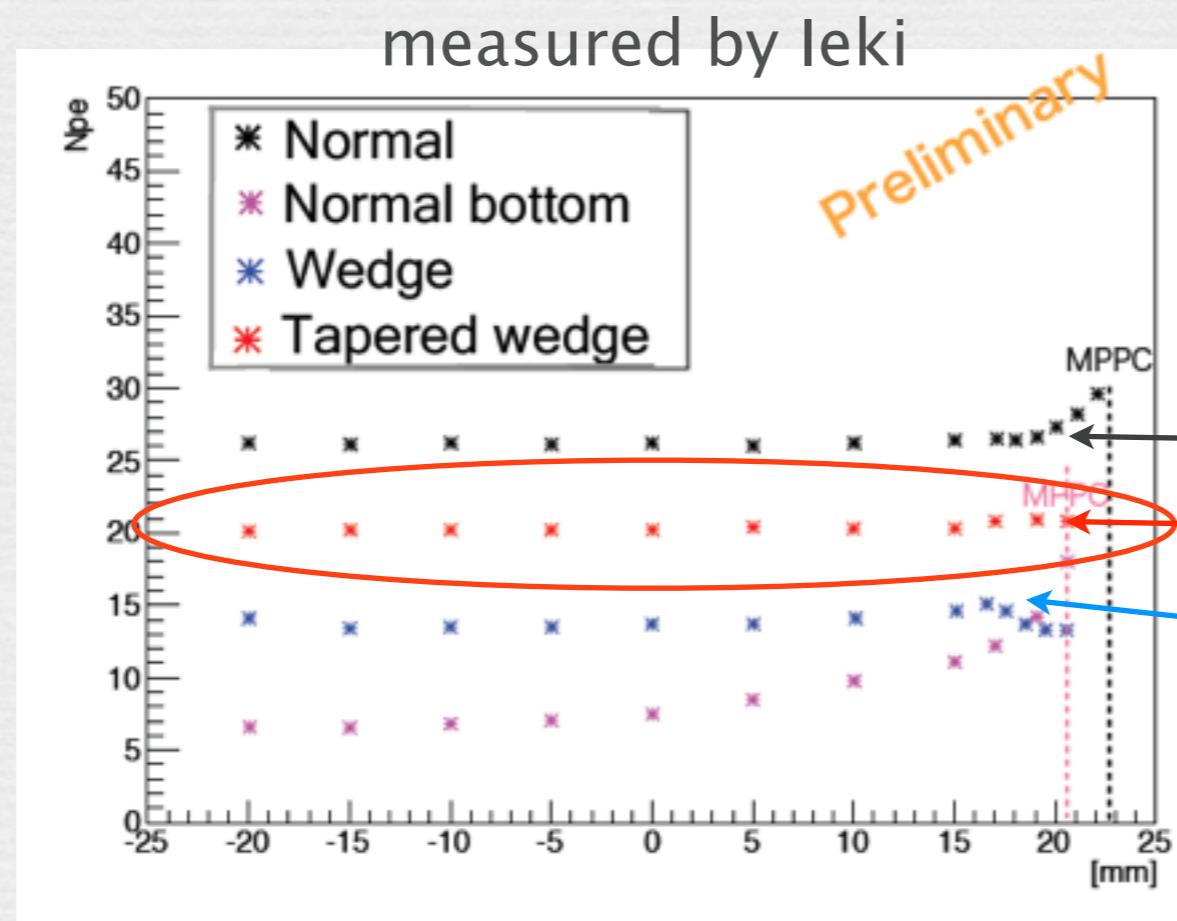
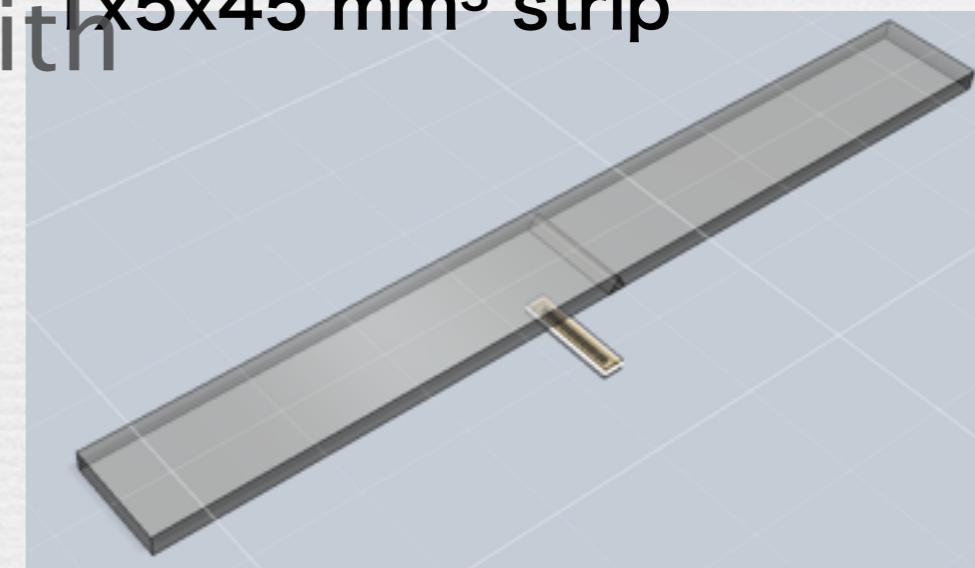


design-scintillator

- ❖ scintillator strip has flexibility
- ❖ new idea to improve homogeneity
- ❖ remove gaps, easy installation with SMD on EBU

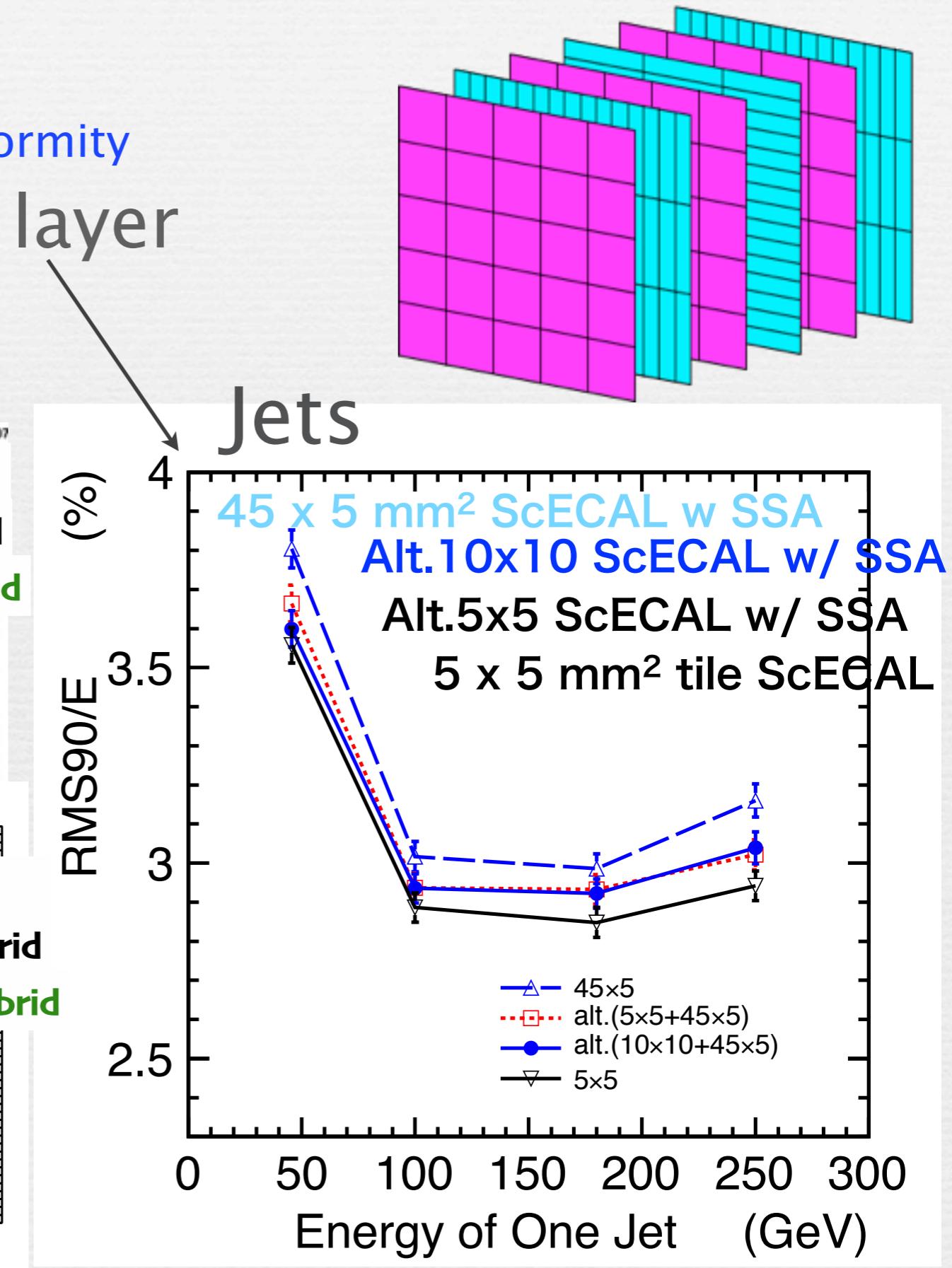
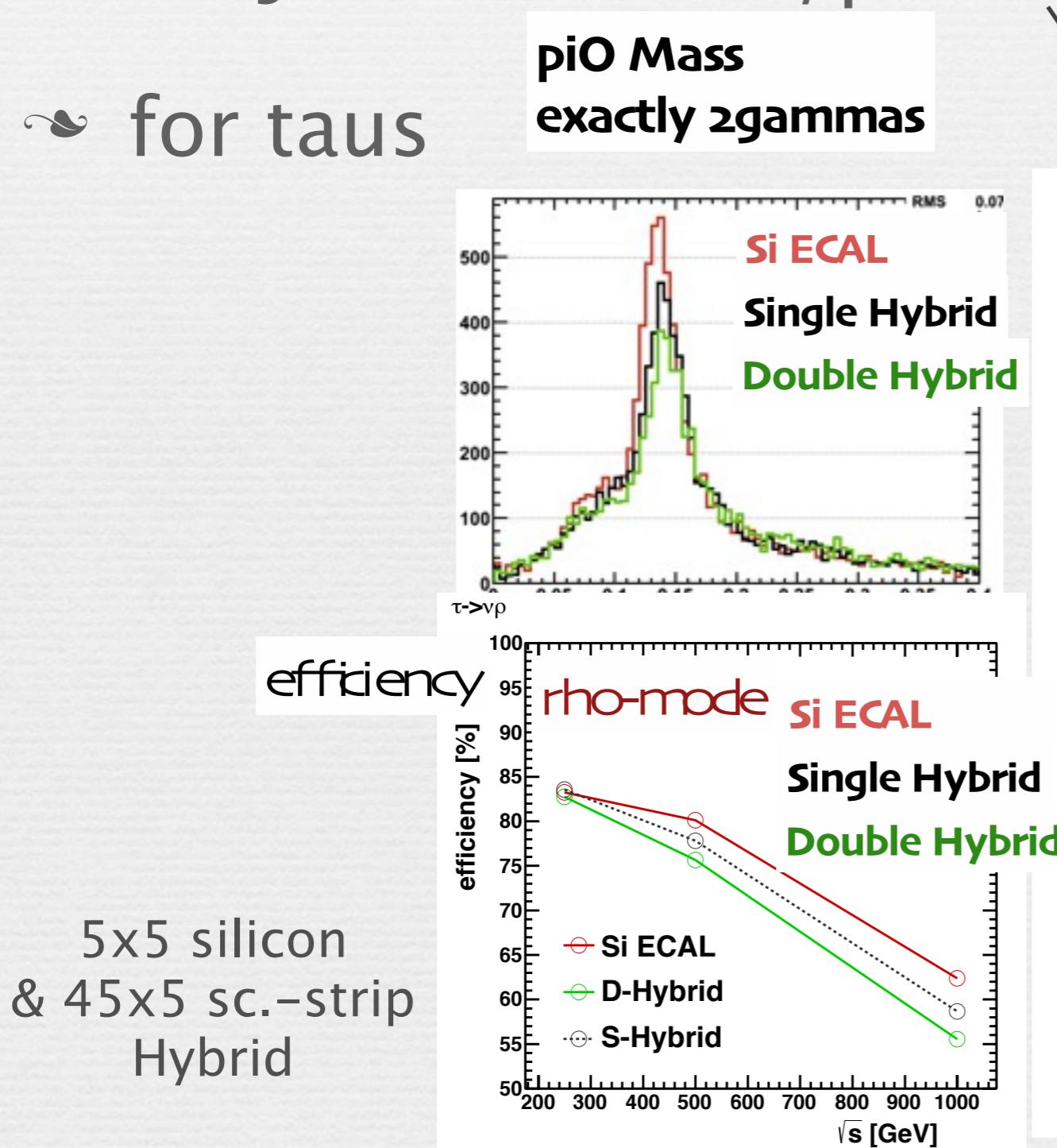


1x5x45 mm³ strip



performance

- simulation with SSA
with saturation & non-uniformity
- for Jets: need tile/pad layer
- for taus



mass prod. & test

