

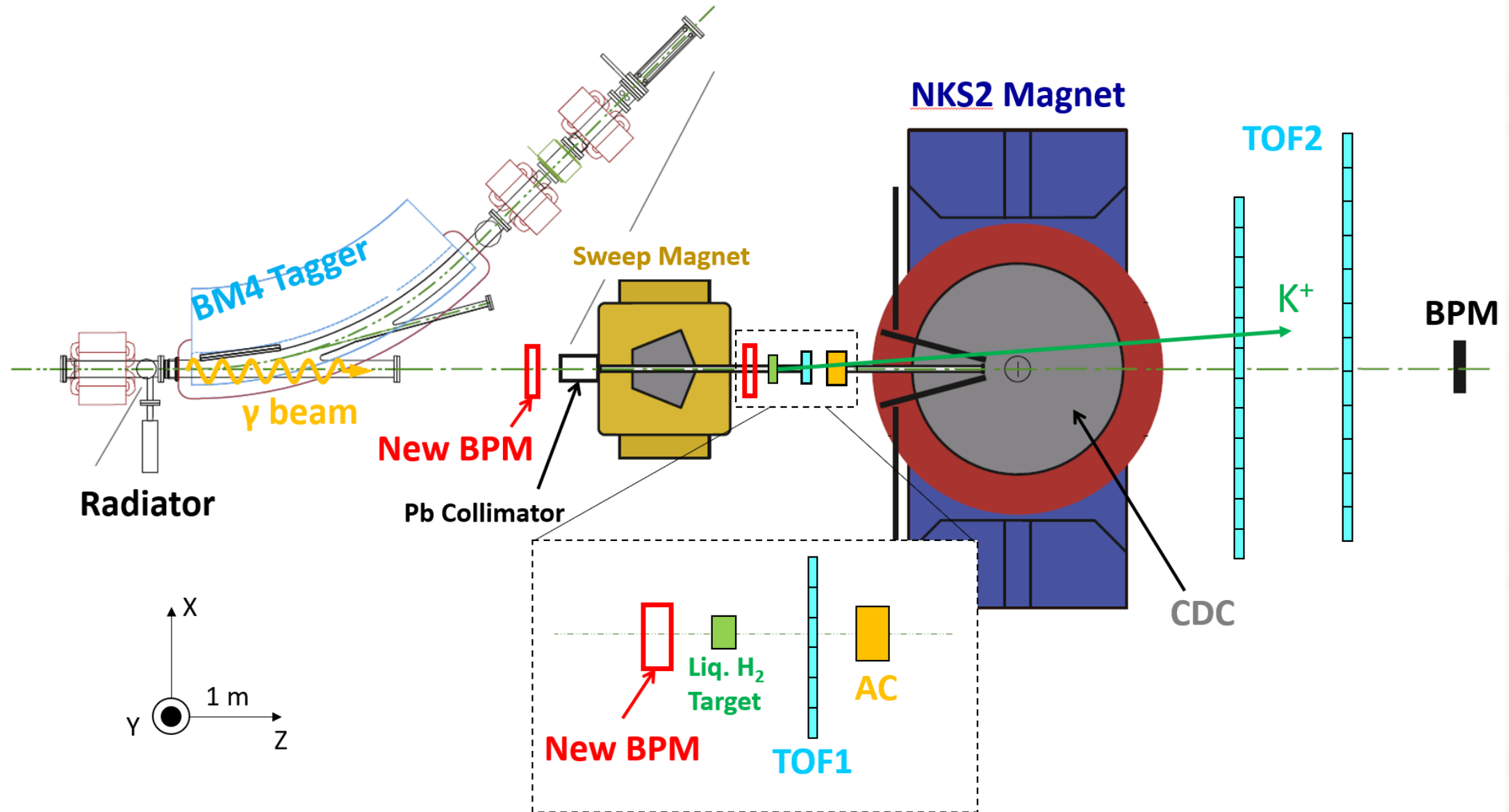
# Mainz Meeting

Tohoku University

Sho Nagao

2022/01/13

# Items



# Status of BPM

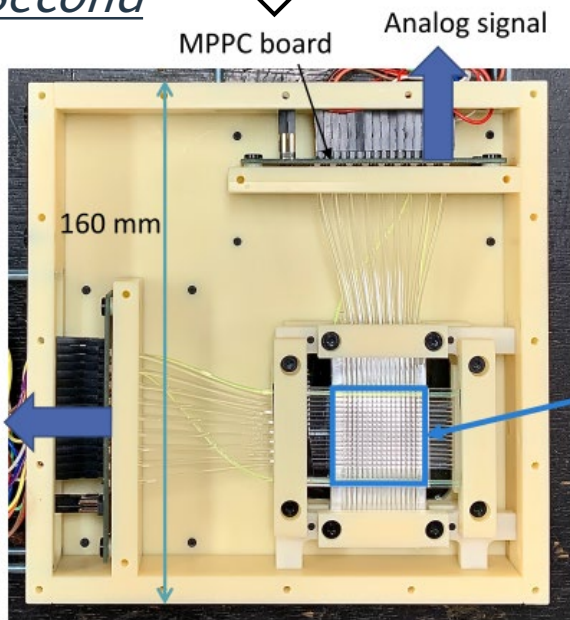
Working for R.Kino

First



$\Delta\mu = \sim\text{mm}$  in one-shot 20 sec  
 $\Delta\sigma = ??$

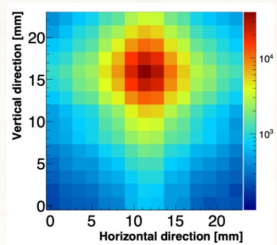
Second



Beam Position Monitor

Issues

- Background
- Charge Information
- Cable arraignment



$\Delta\mu = \sim 10\mu\text{m}$  in 1 sec  
 $\Delta\sigma$

Third

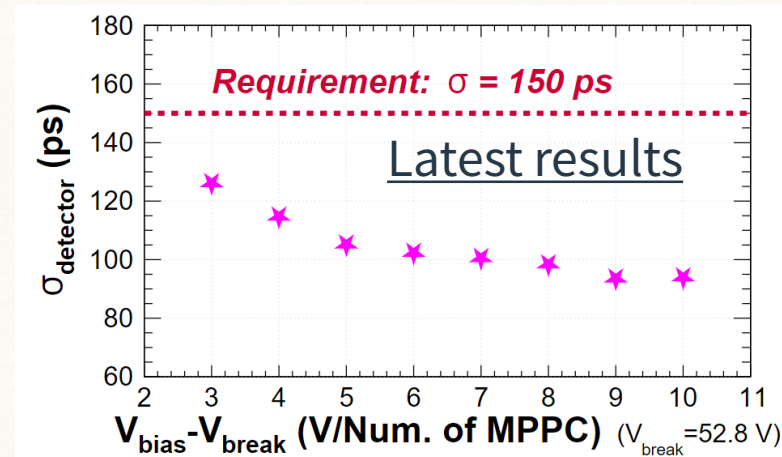
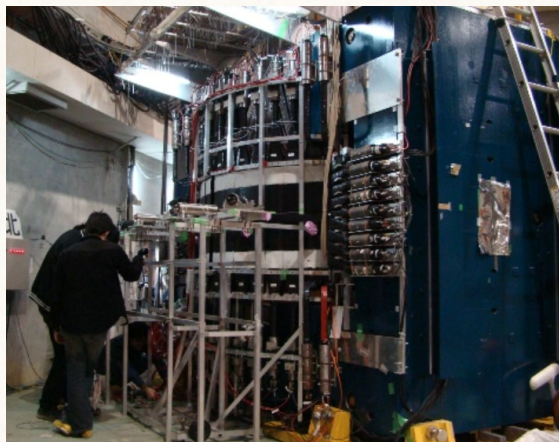


- Thinner Fiber ( $\Phi 1.5 \Rightarrow 0.5$  mm)  
 $\Rightarrow$  Less  $\gamma \rightarrow e^+e^-$  ratio
- New Charge to Time Over Threshold circuit  
 $\Rightarrow$  Better event selection
- New box design  
 $\Rightarrow$  Compact and robust

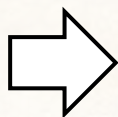
*~ Early Feb.*

# Status of TOF2

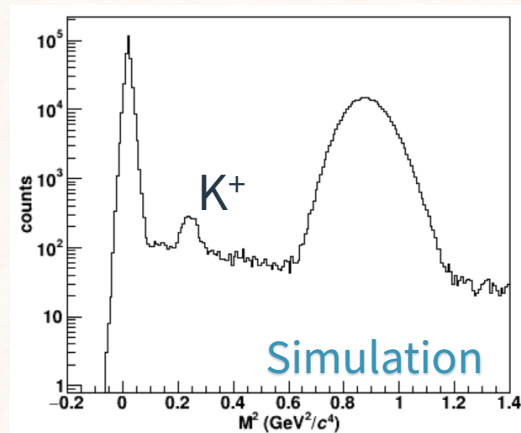
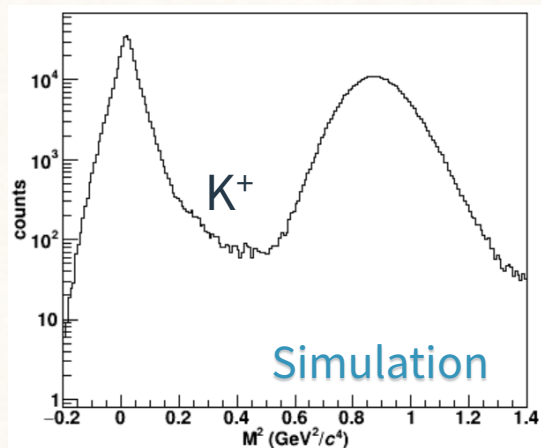
Working for T.Fujiwara



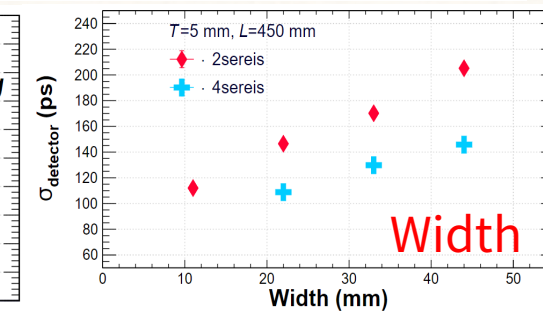
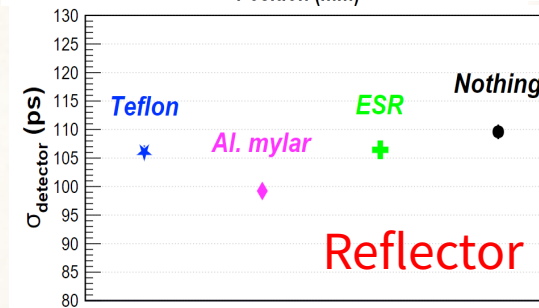
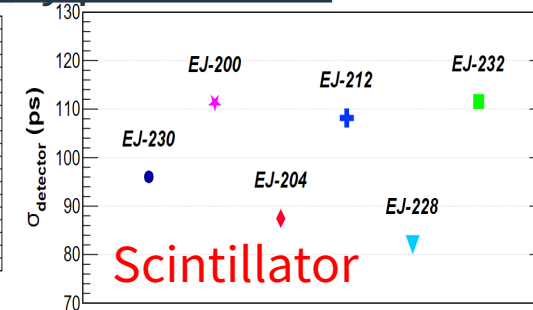
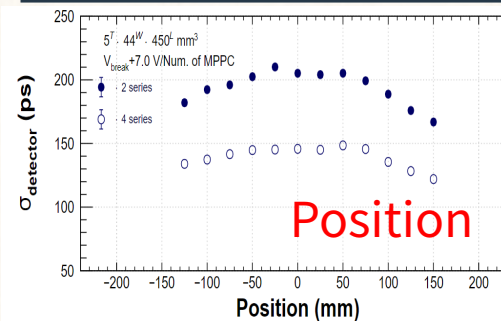
$\sigma_t \sim 400$  ps  
2in PMT: H1161  
 $t = 2$  cm



$\sigma_t \sim 100$  ps  
MPPC: S13360-3050PE  
 $t = 0.5$  cm



## Time resolution v.s many parameters





# Others

I've been estimating.....

- Stopping probabilities
- Background rate
- Expected resolution for the next decay pion spectroscopy.

