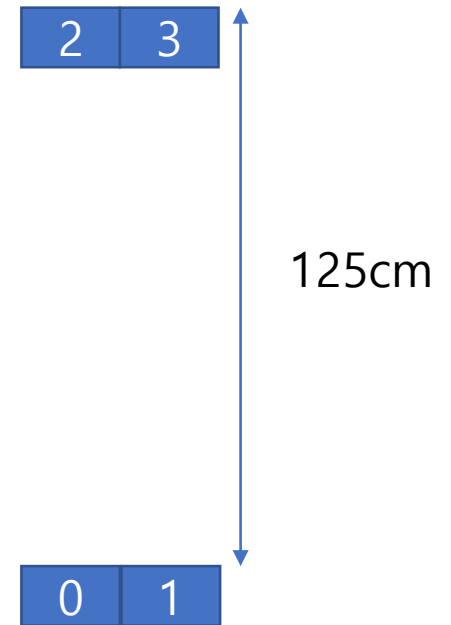
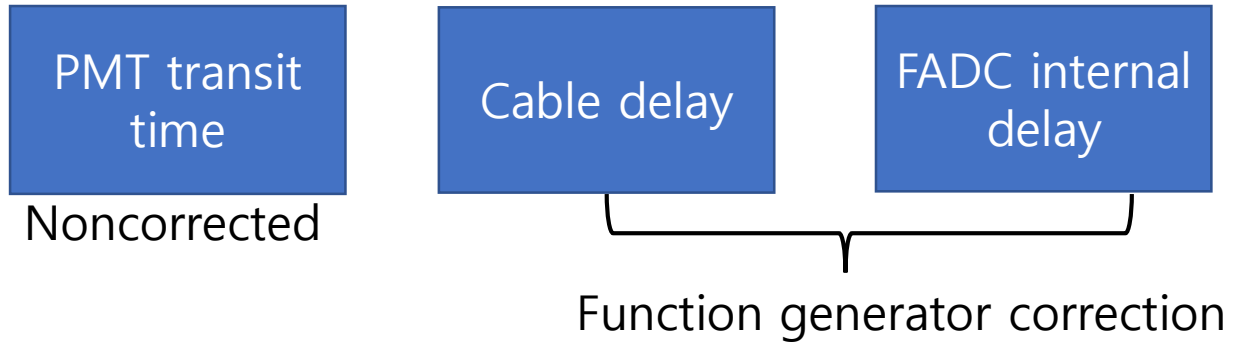


# T-B configuration

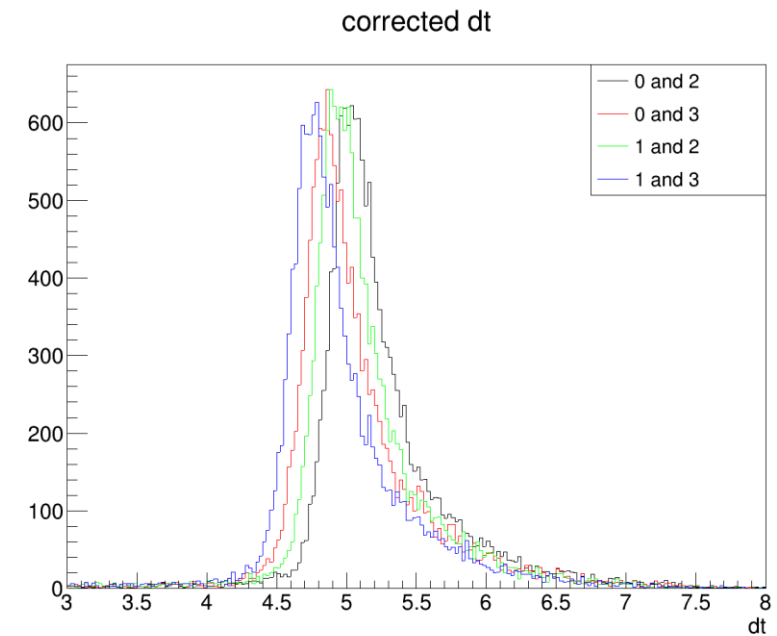
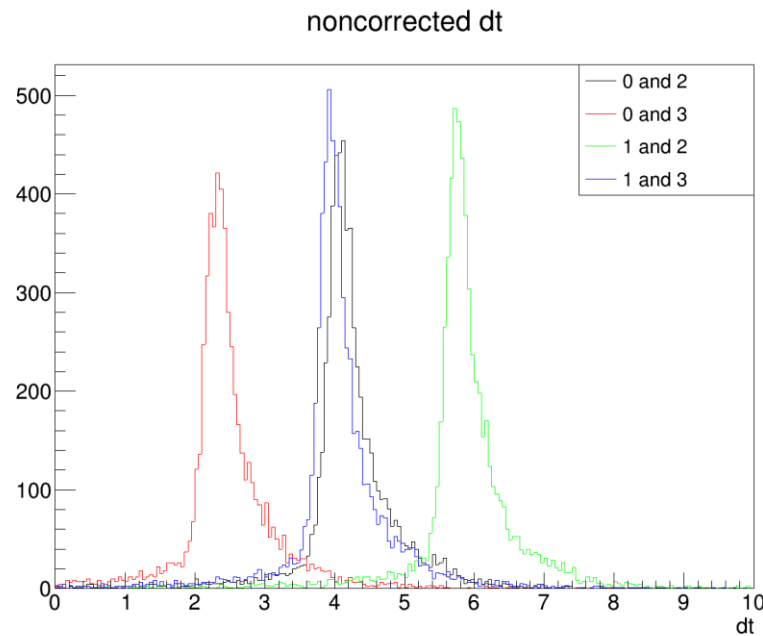
- Determine T-B time difference distribution.
- There were 2 problems.
- It does not match with simulation. (about 600 ps)
- Distribution shift (~300 ps)
- They might be the same problem?



# Correction

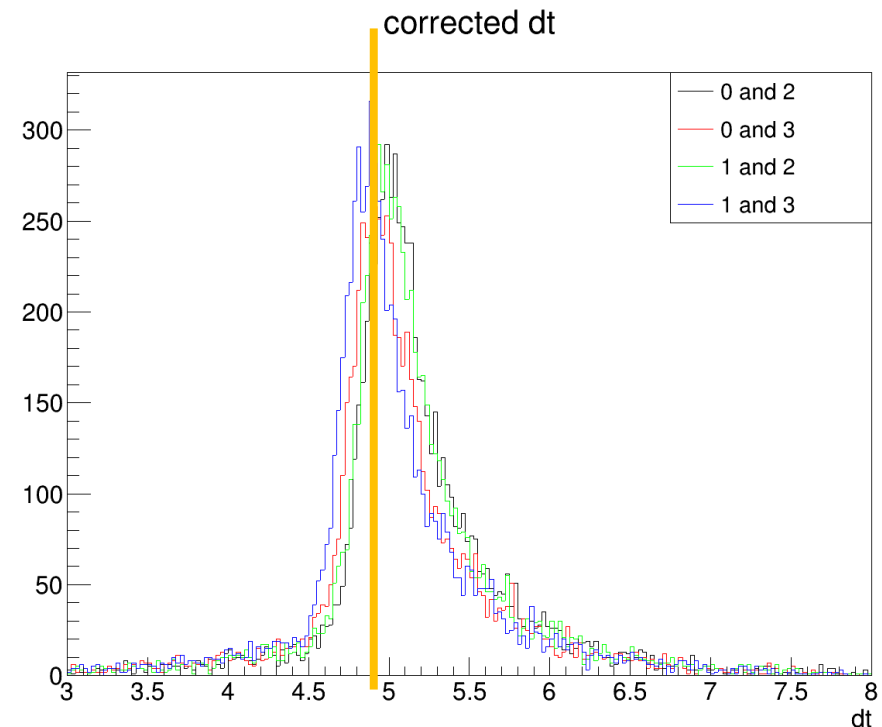
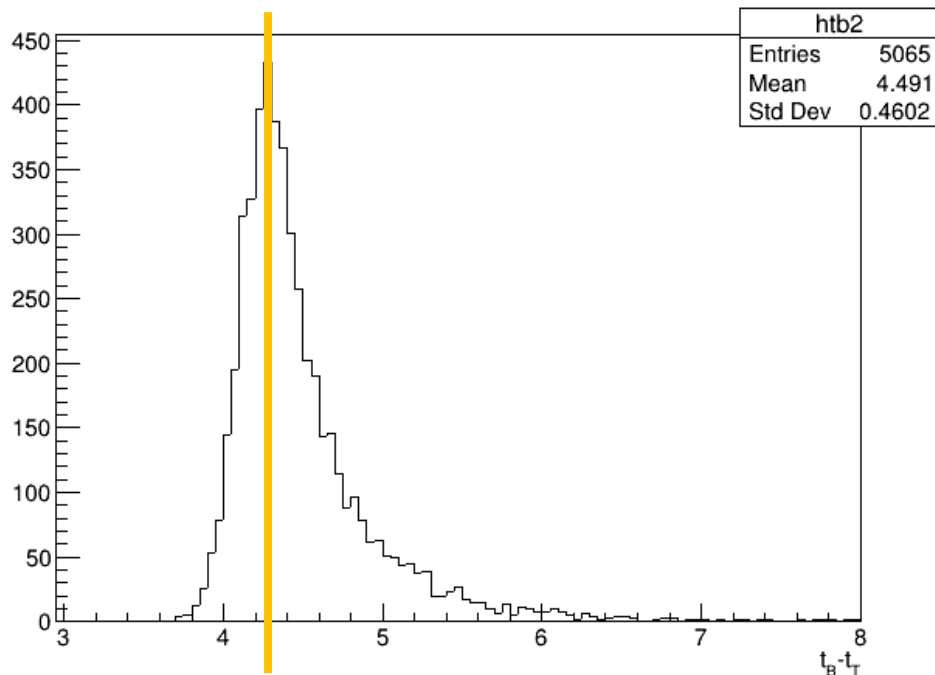


- Correction has been given to each channel with a function generator.
- Our concern is relative time difference, so set reference time as ch1.
- PMT transit time is not considered.



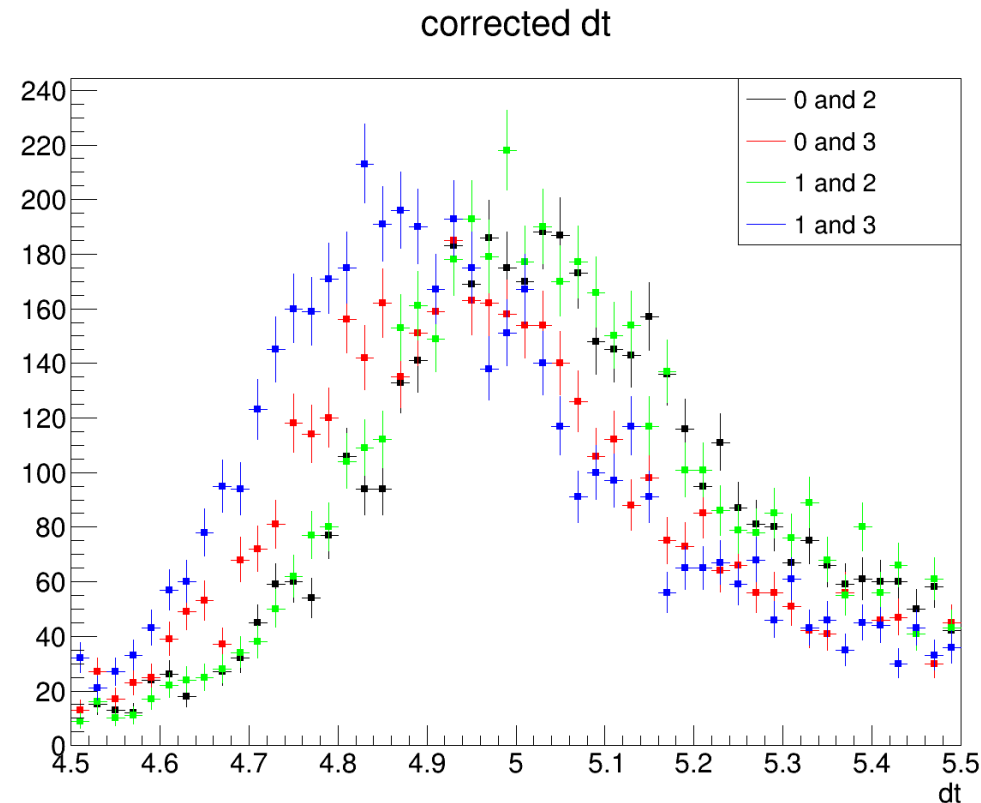
# Comparison with simulation

- Left : simulation, right : data
- Peak positions are different. (about 600ps)
- $1.25[\text{m}]/c = 4.16 [\text{ns}]$



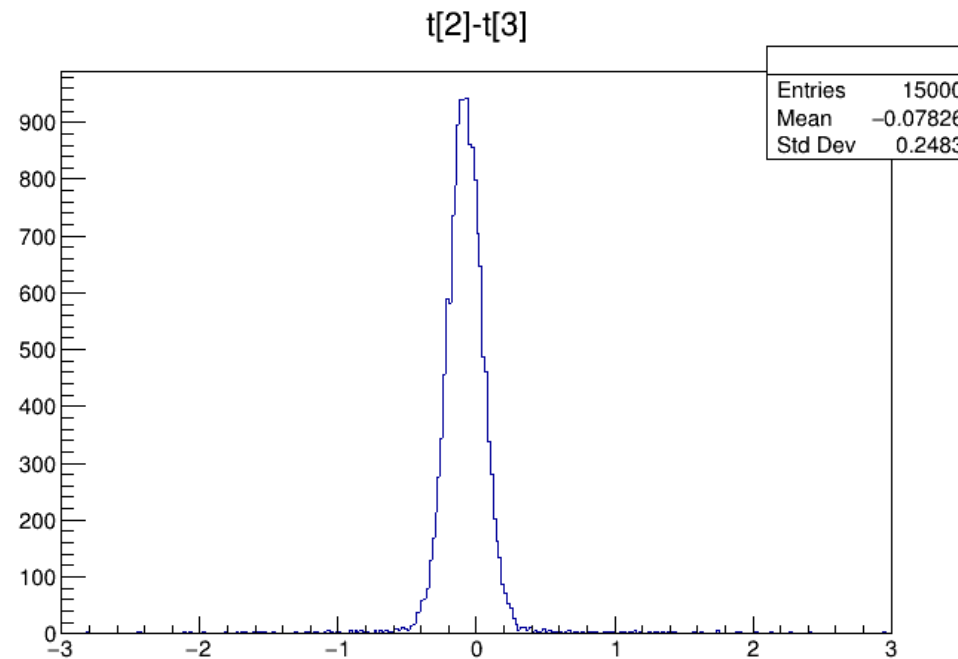
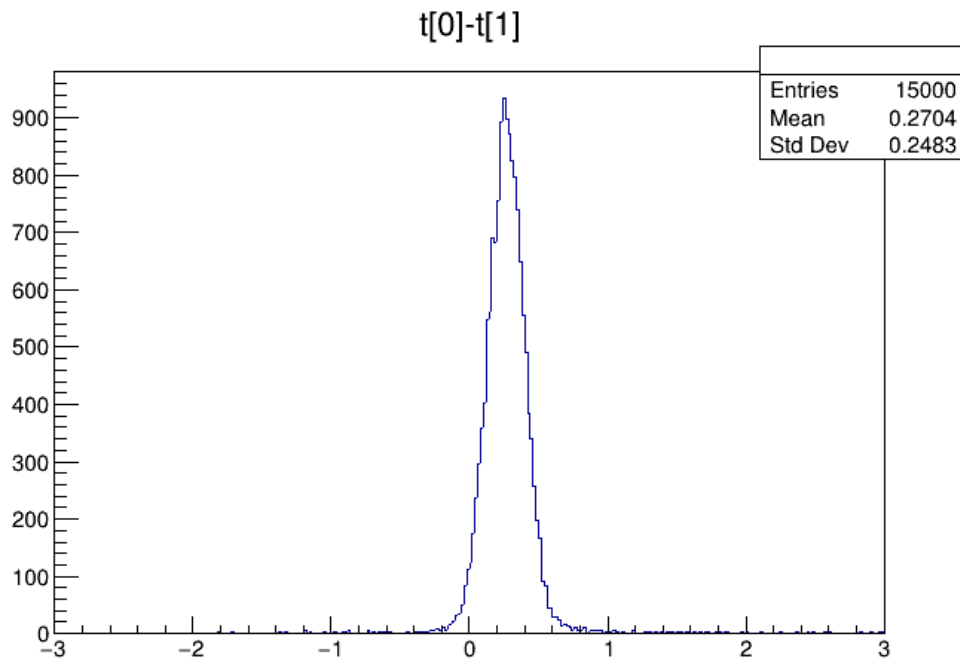
# Distribution shift

- 0-2, 1-3 sets should have smaller dt than 0-3, 1-2.



# Distribution shift

- We have taken data under below configuration.
- $7.5[\text{cm}]/c = 250 \text{ ps}$



# Other correction?

- What makes difference between simulation – data?
- Scintillation?
- PMT?
- Giving correction based on the simulation?