Status report #7

• Presentation at detector seminar

• Writing "宇宙論" Mid-term report

- JPS entry
- Prepare for test beam at ELPH

2019.12.05 (Thu) B4 T. FUJIWARA

JPS entry

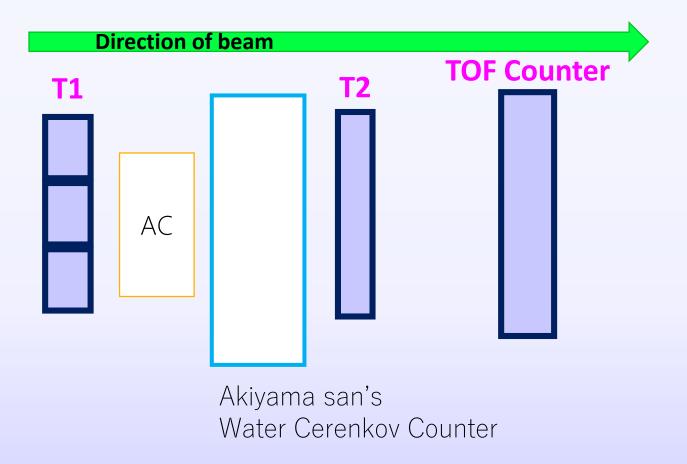
• Final title:

Japanese: ELPHにおけるΛハイパー核実験のための新TOF検出器の開発

English: Development of new TOF counter for the experiment of Λ hypernuclei in ELPH

Prepare for test beam at ELPH -1-

My task: T1, T2 trigger and TOF counter

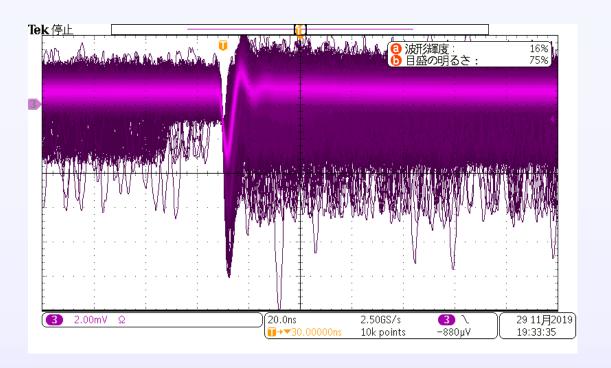


This week's task list (by Nagao san)

- Complete T1 & T2
- Modifying V_{th} using β -ray source
- Setting at test bench
- Setting trigger
- Gathering data of cosmic ray

Prepare for test beam at ELPH -2-

• T1-1



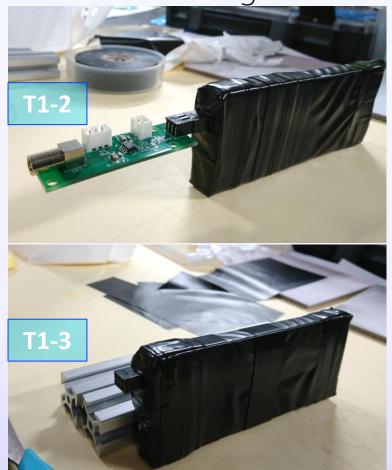
←1photon pulse shape of T1-1

- *) Trigger: -880µV
- *) Voltage: 56.0V
- *)1 photon ~3mV

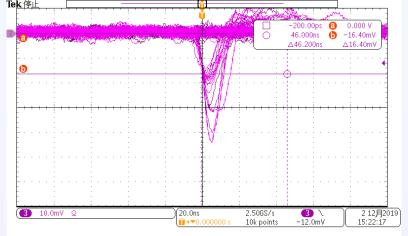
Prepare for test beam at ELPH -3-

T1-2 & T1-3

Finished mounting MPPC



• Check the photon pulse of T1-2, T1-3

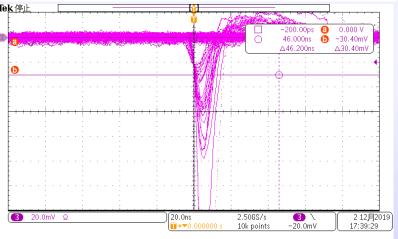


←1photon pulse shape of T1-2

*) Trigger: -12.0mV

*) Voltage: 56.0V

*)1 photon ~16mV



←1photon pulse shape of T1-3

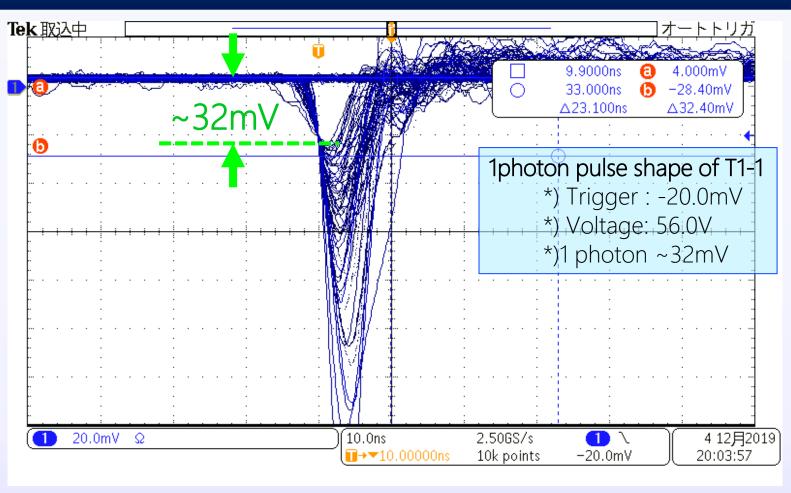
*)Trigger: -20.0mV

*)Voltage: 56.0V

*)1 photon ~26mV

T2





- Modifying V_{th} using β -ray source
- Setting trigger at test bench: (T1-1||T1-3||T1-3) && T2
- Gathering data of cosmic ray
- Making TOF Counter → next week

• B4 seminar