

Tohoku-Mainz Meeting

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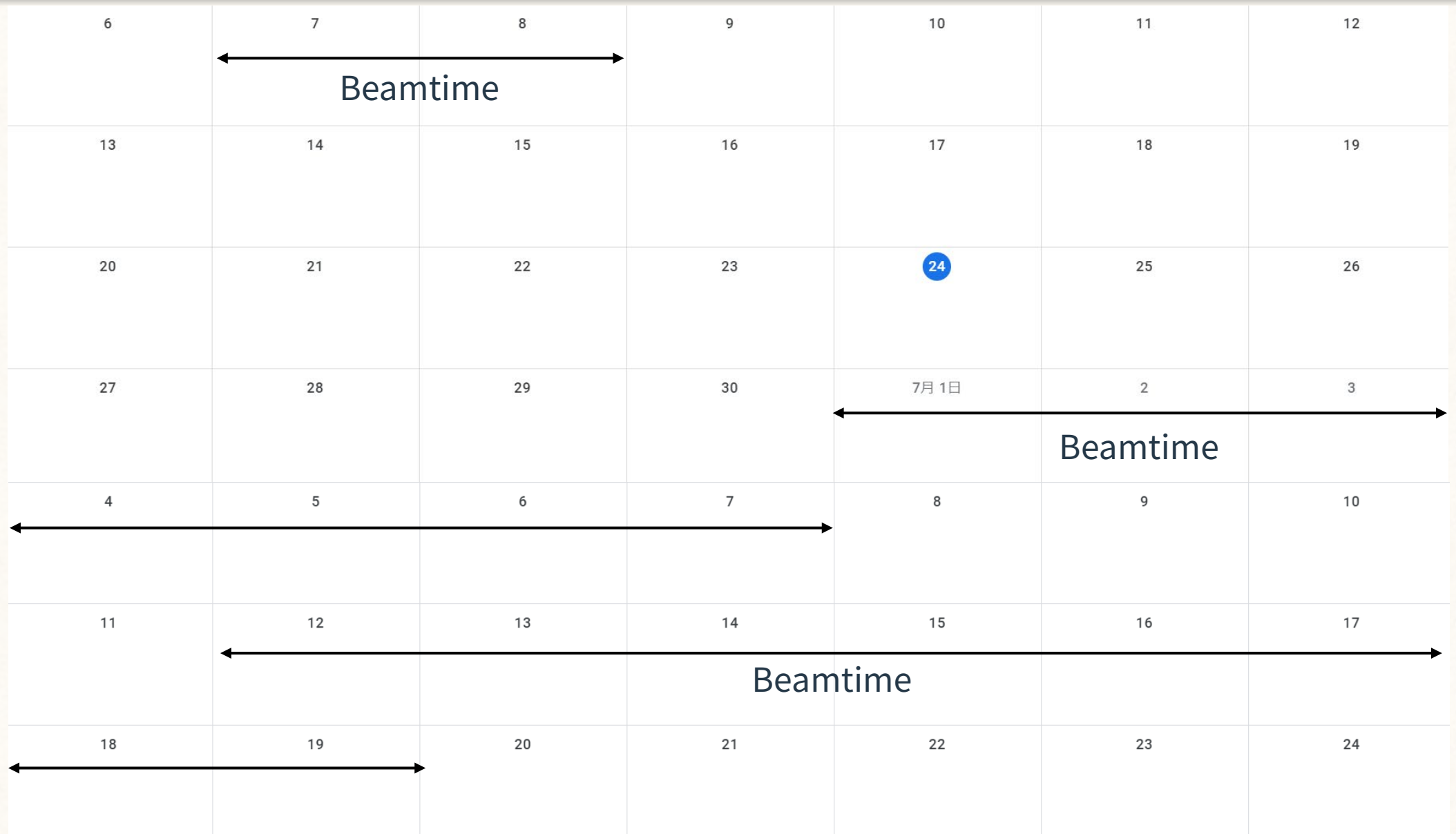
- ELPH status

Tohoku University

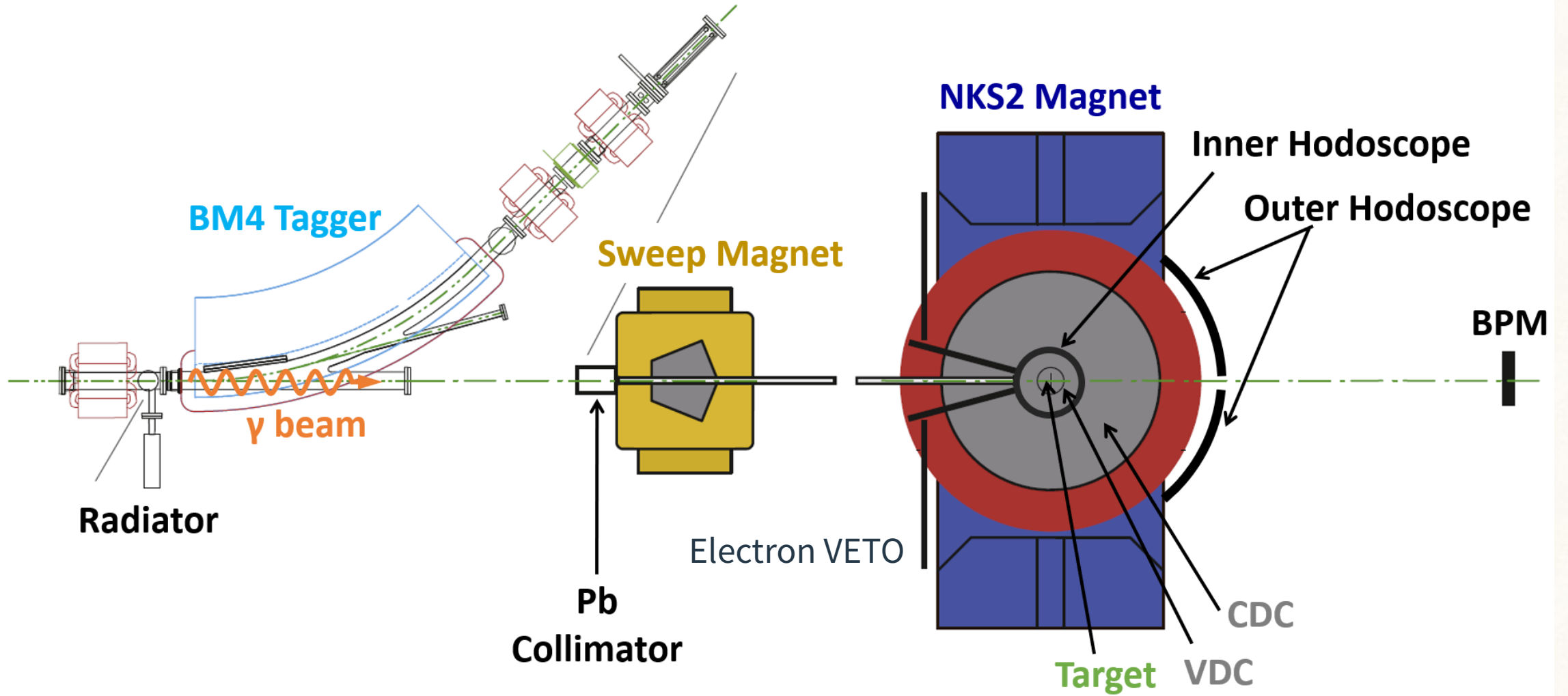
Sho Nagao

2021/07/29

ELPH Beamtime



Setup



Data taking condition

Trigger condition: "Tagger \otimes $I_H \geq 2$ \otimes $O_H \geq 1$ \otimes $\overline{\text{Electron VETO}}$ ".

Taking data with 0.5 mA in the electron storage ring (~20 mA max.).

Tagged photon rate ~ 0.7 MHz

Trigger request rate ~ 2 kHz

DAQ accept rate ~ 1.2 kHz

Total tagged photon counts ~ 200G Photons

Beamtime (Oct.-)

Our next proposals

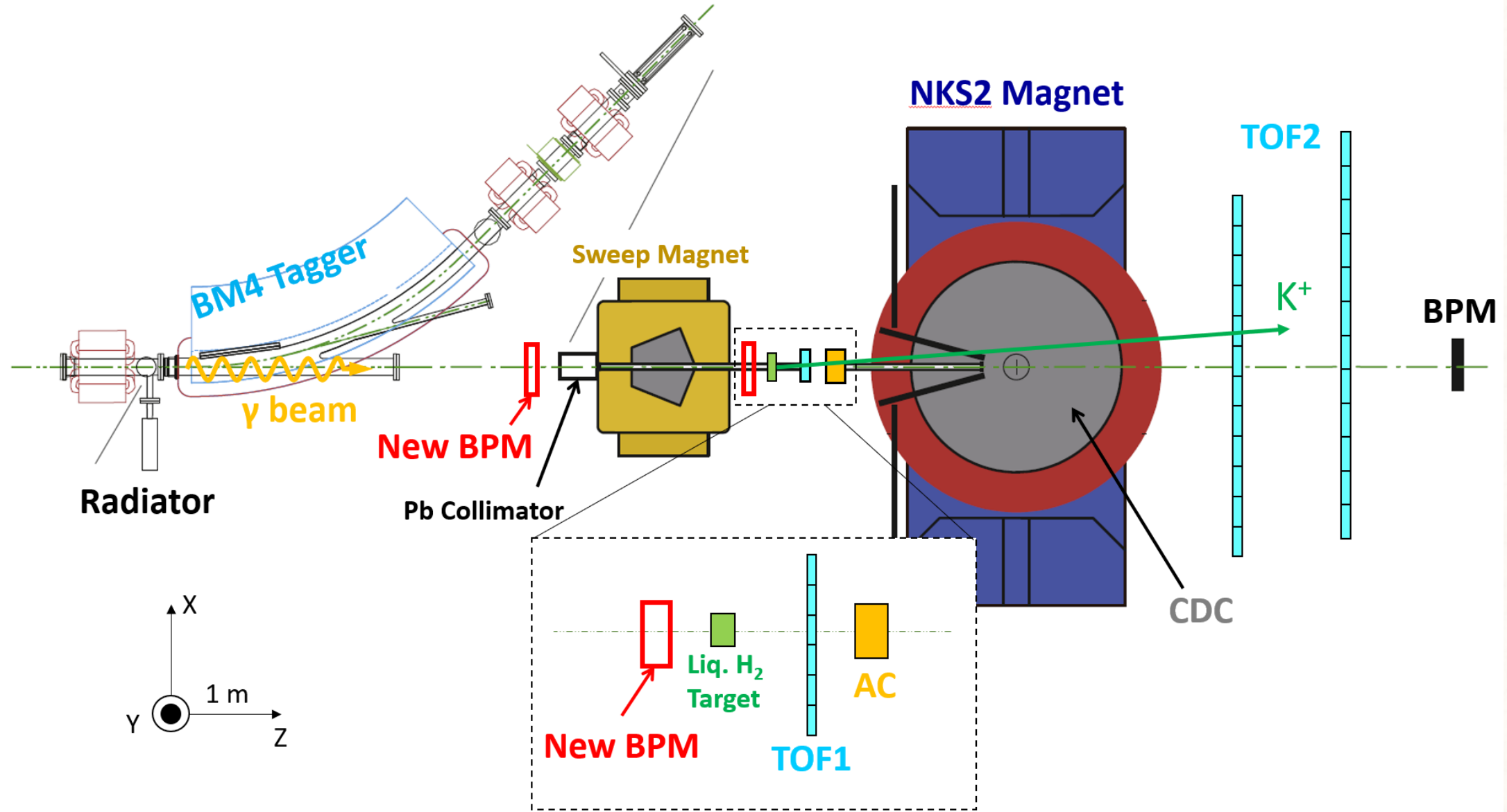
※ 1 shift = 12 hours

Purpose	Request beamtime	Period
Photon Tagger Commissioning	2 shifts	middle Oct. early Nov.
Cross Section of $\gamma d \rightarrow d \pi^\pm X$	8 shifts	early Nov.
Cross section of $\gamma p \rightarrow K^+ \Lambda$	30 shifts	middle and late Nov. early Dec. middle Mar.

Large installation is planned in Nov. 2021 and Feb. 2022.

There is a ELPH PAC next week.

New setup



New BPM

