

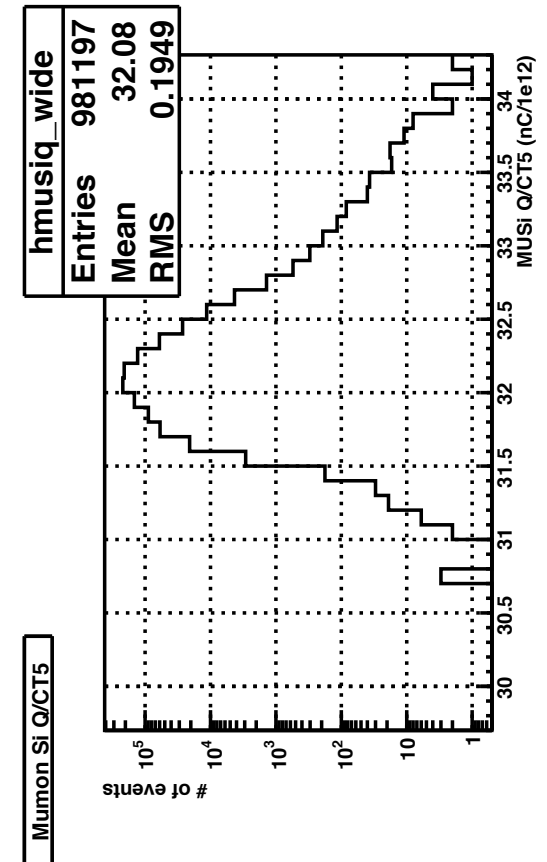
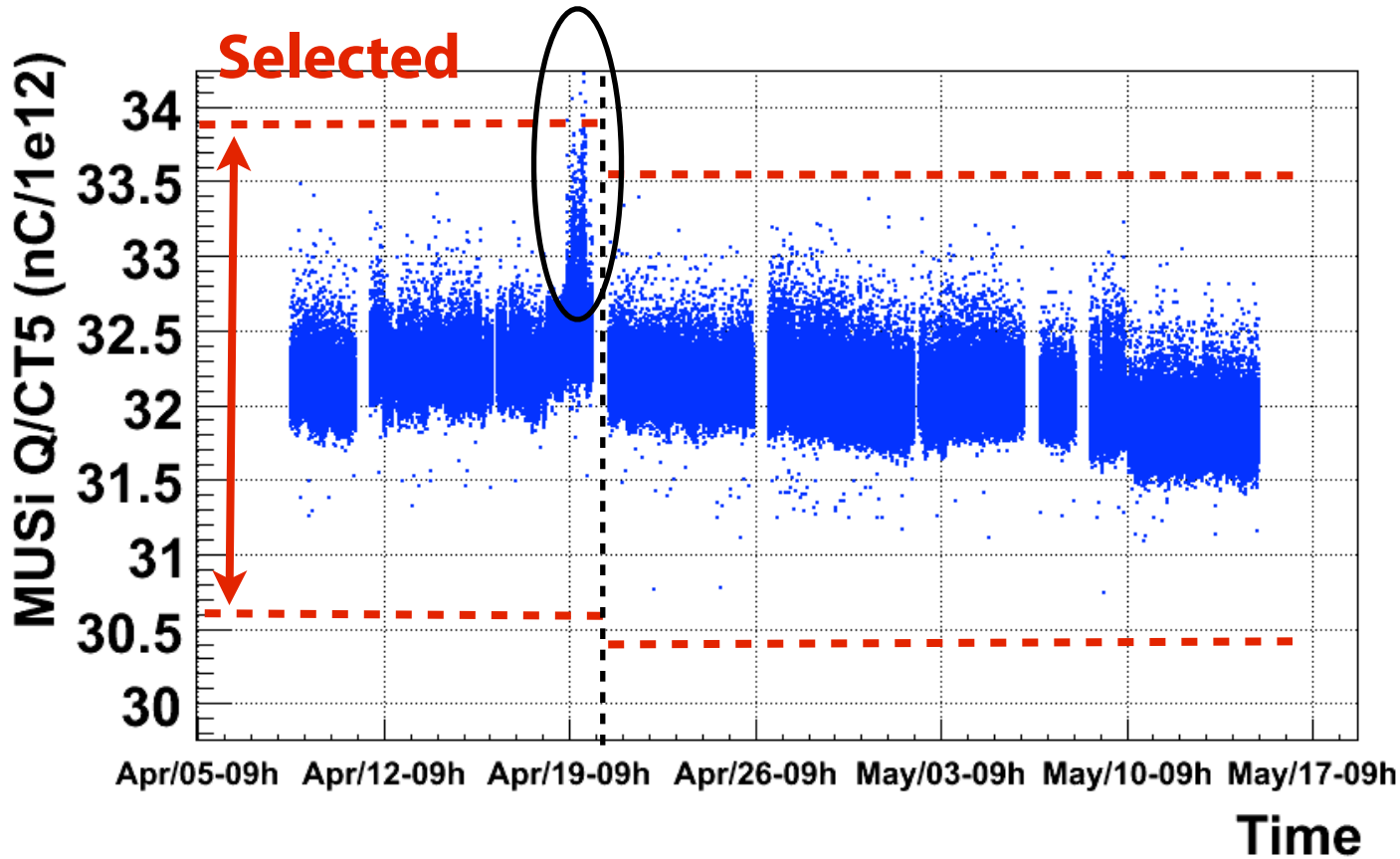
MUSi Q/CT5 check

A.Murakami, for beam group

Problem

~Apr/20 : $32.24 \pm 5\%$
Apr/20~ : $32.01 \pm 5\%$

Mumon Si Qtotal/CT5



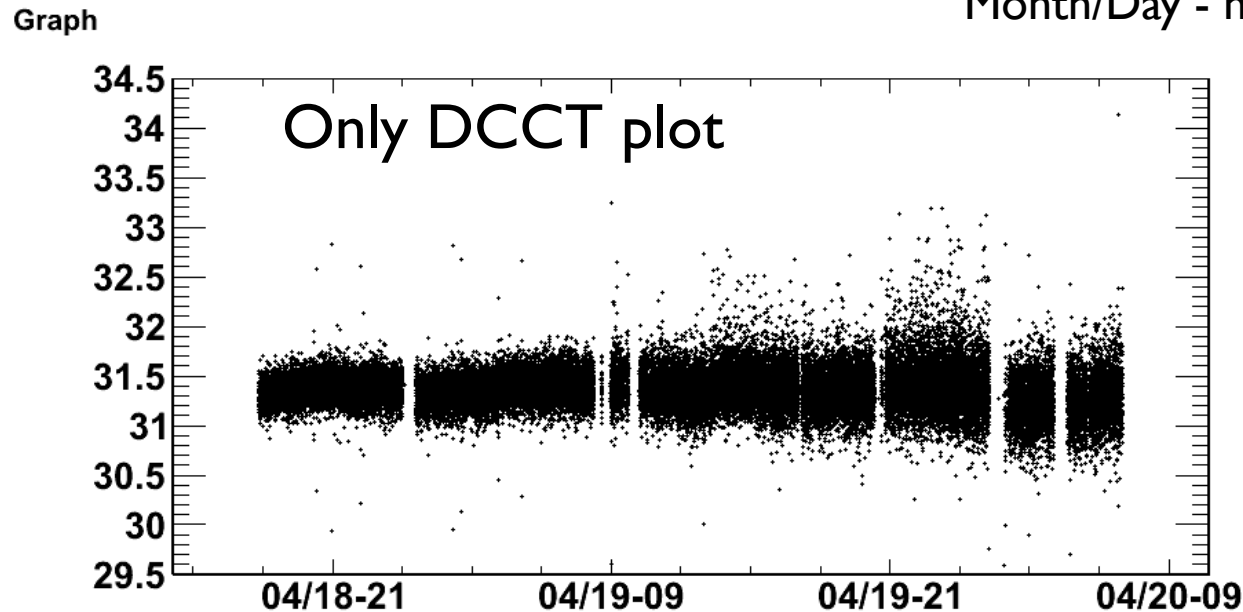
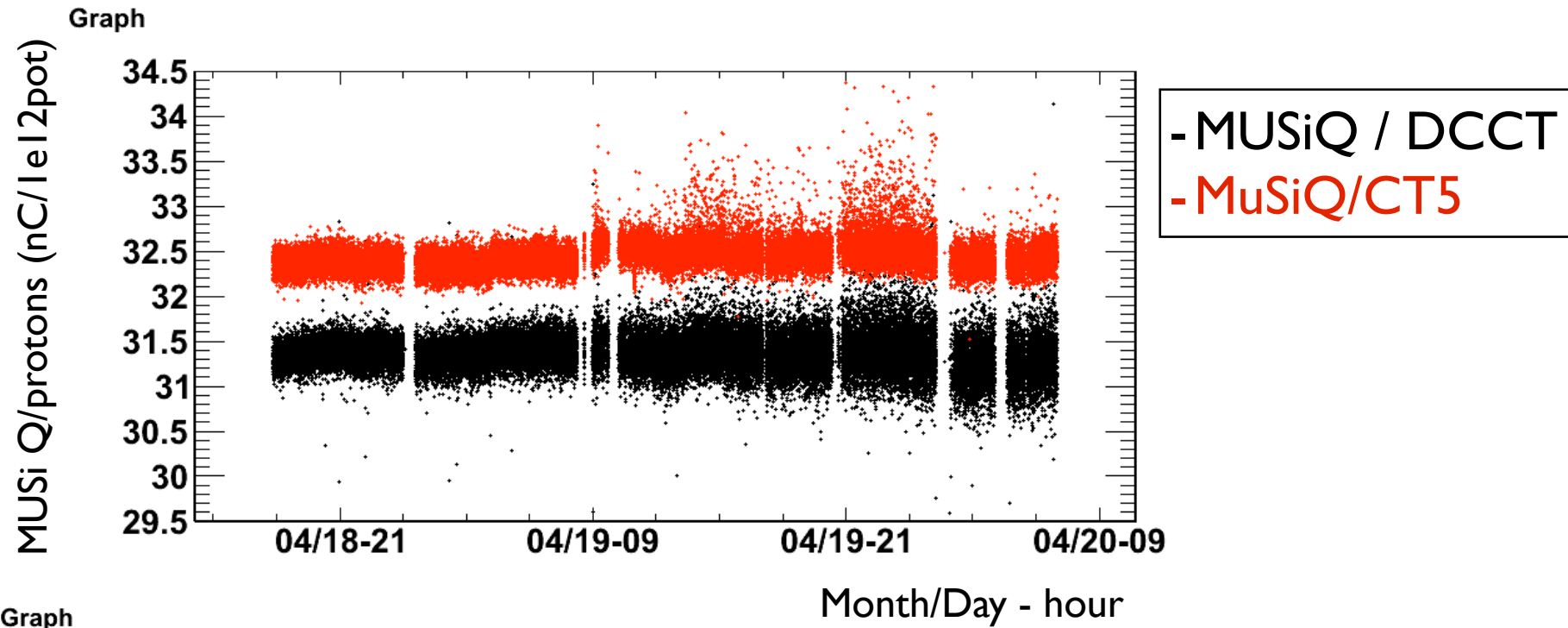
15 Bad spill (not changed from prev. report)

Still investigate the reason of bad spills

Data set

- Run#420121 ~ #420137

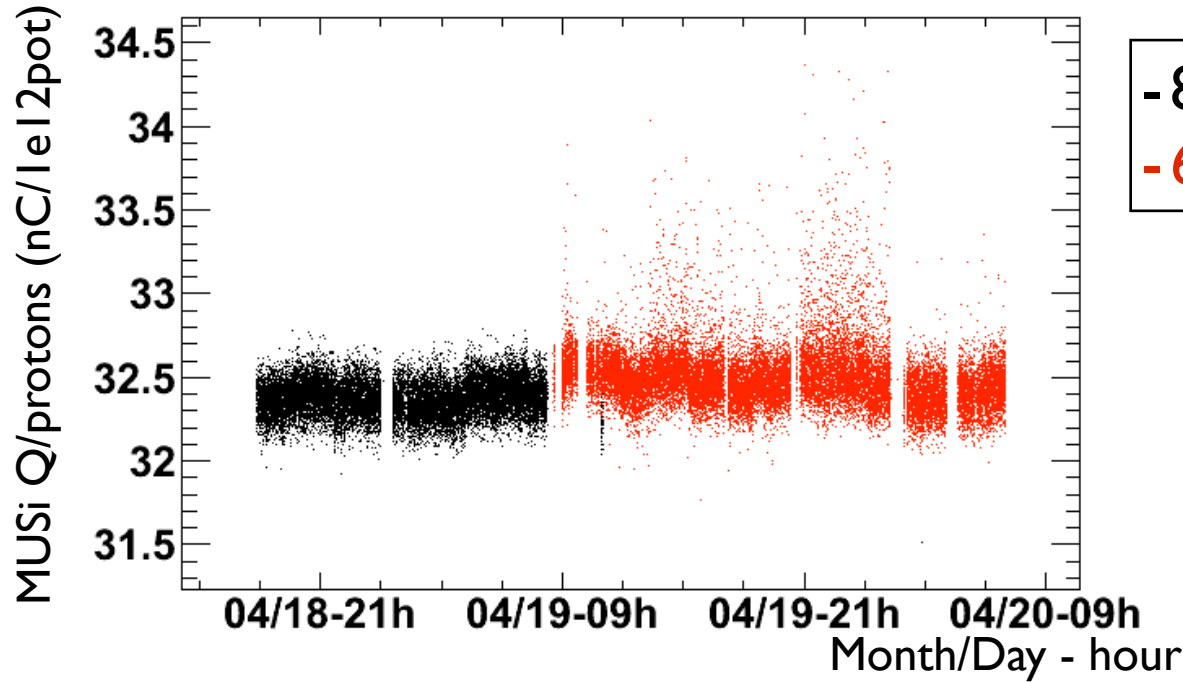
MUSiQ / protons history



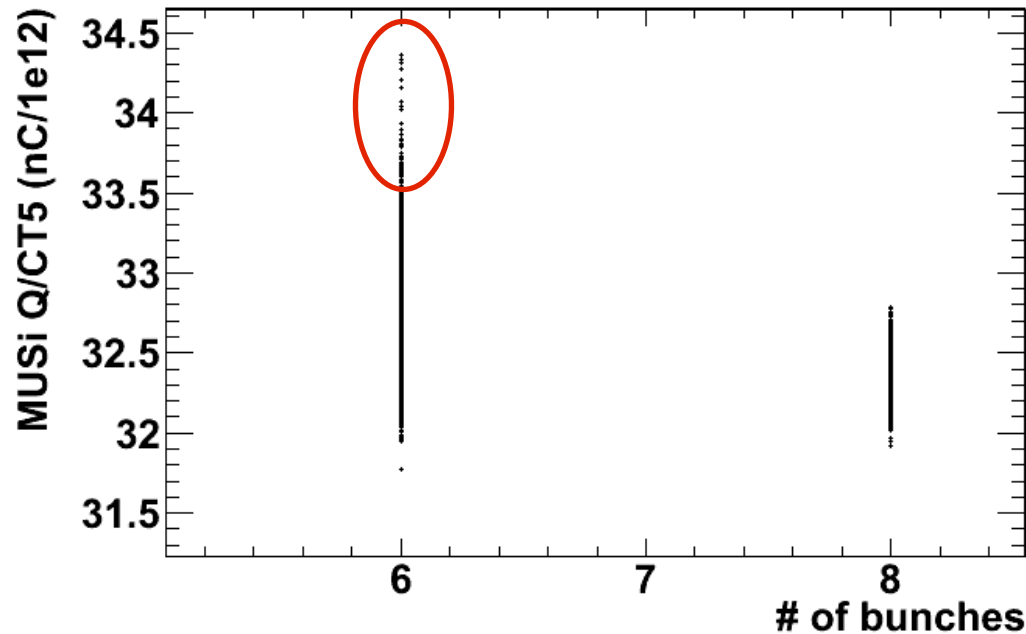
MUSiQ/DCCT change
same as like MUSiQ/CT5.

MUSiQ/CT5 according to # of bunches

Graph



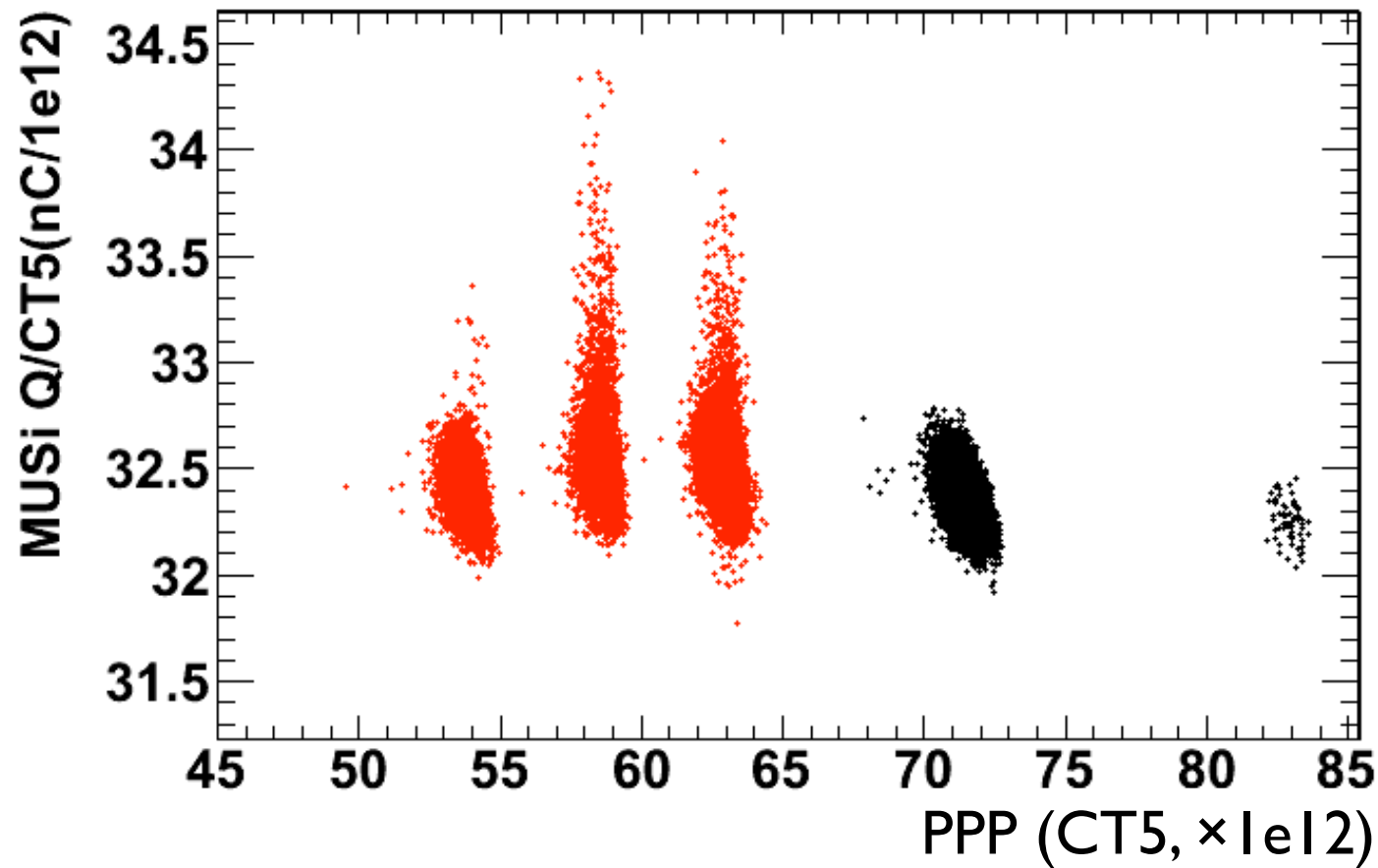
- 8 bunches
- 6 bunches



→ At 6 bunches, large fluctuation.

MUSi Q /CT5 vs ppp

Graph



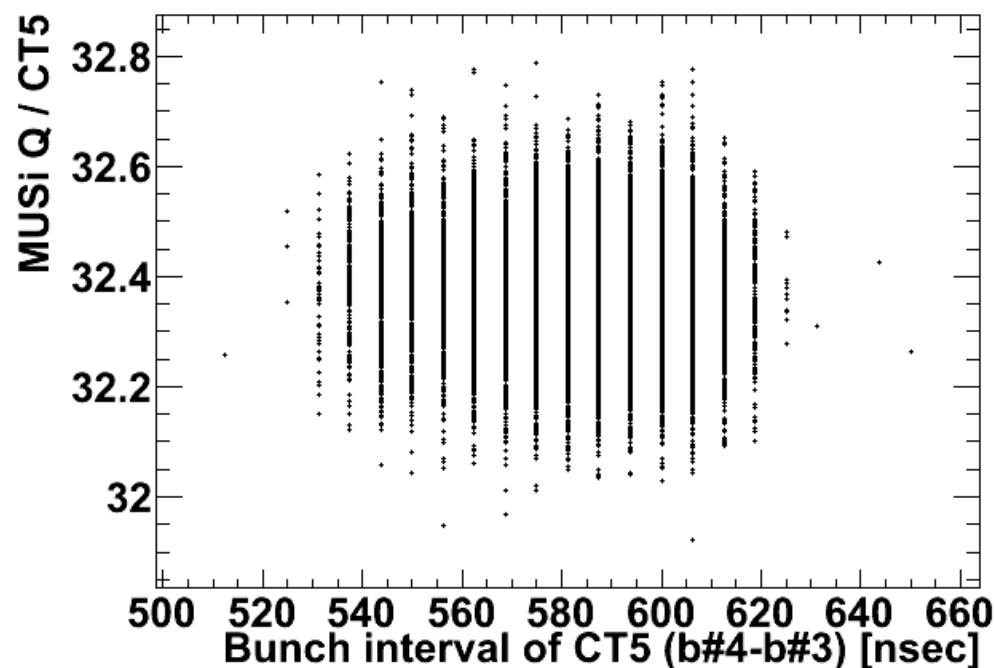
→ What PPP level does CT Attenuator change from ?

MUSi Q /CT5 vs bunch interval

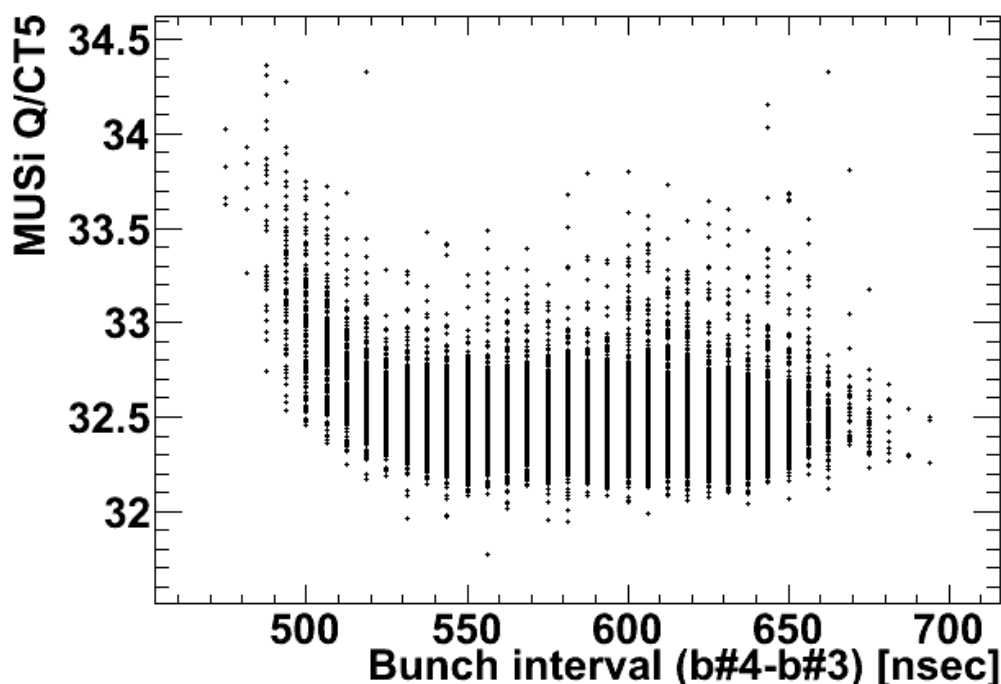
bunch interval = (beam timing @ bunch#4) - (beam timing @ bunch#3)

→ This beam timing is beam timing measured at CT5

Only 8 bunches



Only 6 bunches



Bunch interval become less (than 500nsec) → MUSiQ/CT5 become larger
(Same as suzuki-san,s study)