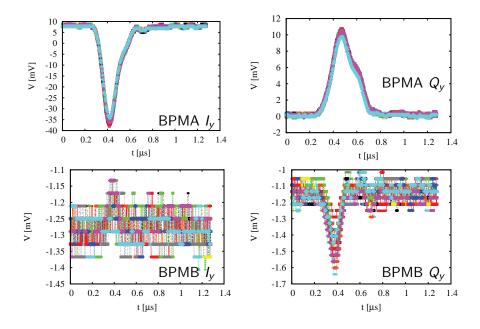
- First step,try to make BPMB IQy signals zero. From http://atf.kek.jp/twiki/bin/view/ATFlogbook/Log201312170 it happened at
  - Mover 1 5.974 V
  - Mover 2 5.954 V
  - Mover 3 5.947 V
- 51 bunches were acquired at this point, the following are the IQy signals.

10db att. and -10db gain in amplifiers (not sure)

BPMA signals might be saturated



▲ロト ▲御 ト ▲ 臣 ト ▲ 臣 ト の Q @

- Next step, try to make BPMA IQy signals zero by movers
- Movers were moved up  $34\mu$ m (1.1V less each mover) to find BPMB  $I_y$  signal zero. It was made on steps of  $\sim \pm 3\mu$ m (0.1V)
- ► Movers 1,2 and 3 were moved in different scales to achieve rotation. Steps of ~ ±0.1mrad (-0.32V on M1,2 and 0.1V on M3)
- From

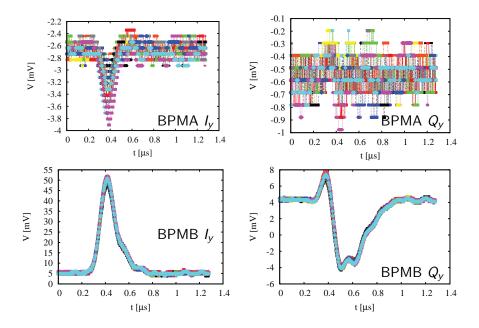
```
http://atf.kek.jp/twiki/bin/view/ATFlogbook/Log20131217o
```

it happened at

Mover 1	-0.072 V
Mover 2	-0.057 V
	6 400 14

- Mover 3 6.429 V
- 51 bunches were acquired at this point, the following are the IQy signals
  10db att. and -10db gain in amplifiers (not sure)

BPMB signals might be saturated



▲ロト ▲圖 ト ▲ 臣 ト ▲ 臣 ト ○ 包 ○ ○ ○ ○

 Averaging movers M1,2, and including M3 in the equation θ<sub>ρ</sub> = 1.03mrad(M<sub>3</sub> - M<sub>1,2</sub>). Where: M<sub>i</sub> = (3 - V<sub>i</sub>)/4 1.03mrad= 125μm/121.6mm =(half movers range/distance between M<sub>1,2</sub> and M<sub>3</sub>) It is possible to obtain initial and final angles

Initial angle θ<sub>p</sub> = -0.01mrad
 Final angle θ<sub>p</sub> = 1.6mrad