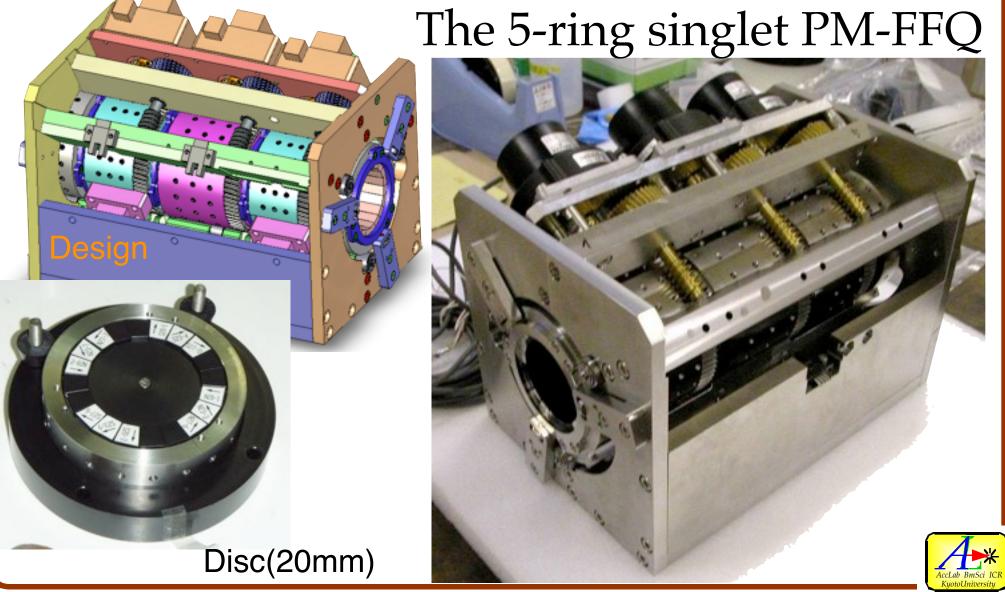
Preparation Status of the Permanent Magnet Quadrupole Test

Kyoto University Y. Iwashita



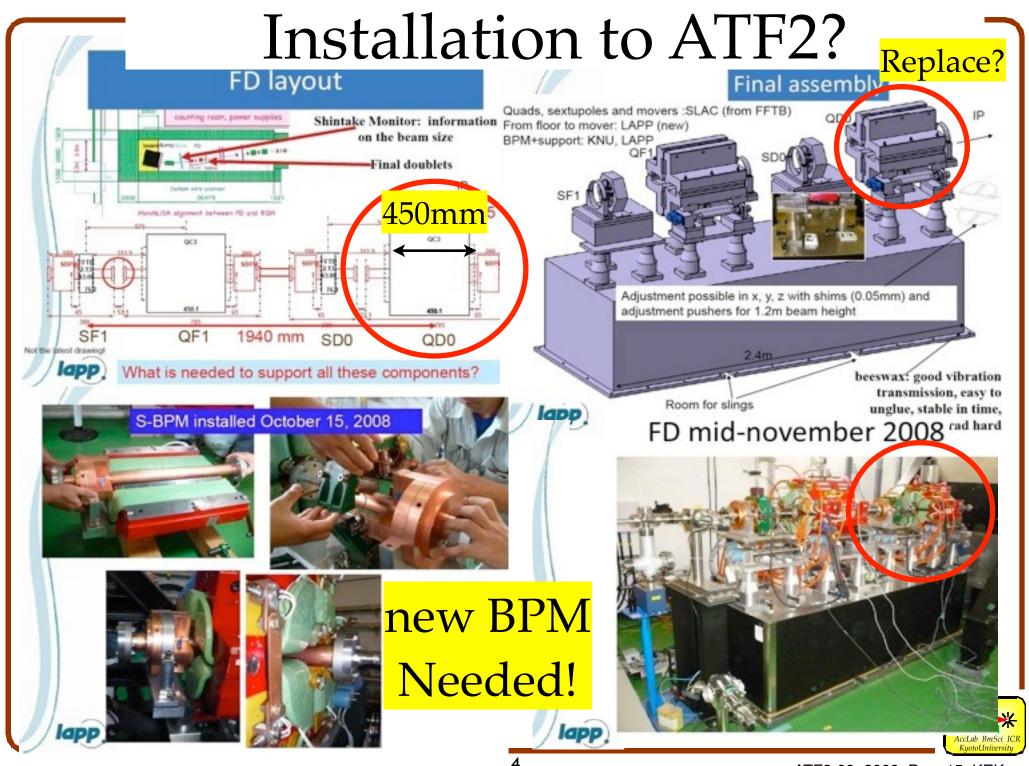
Gluckstern's 5-ring PMQ Singlet(2):

"Continuously Adjustable" PMQ fabricated



Initial Test Position at ATF2 Beam Line



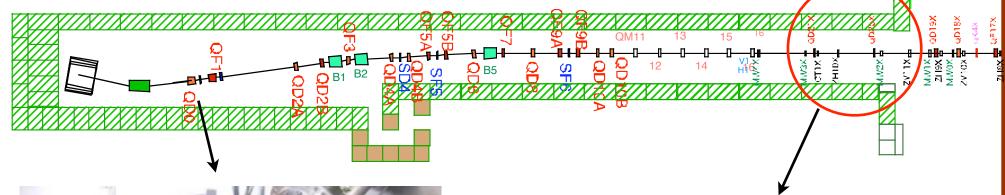


Candidates for PMQ Location

Final Focus System

β matching

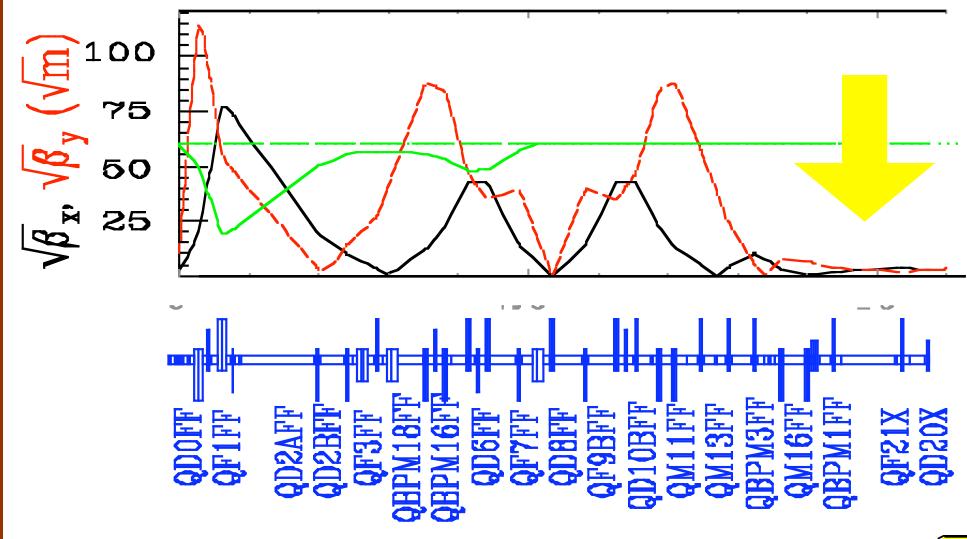
Diagnostic







Optics



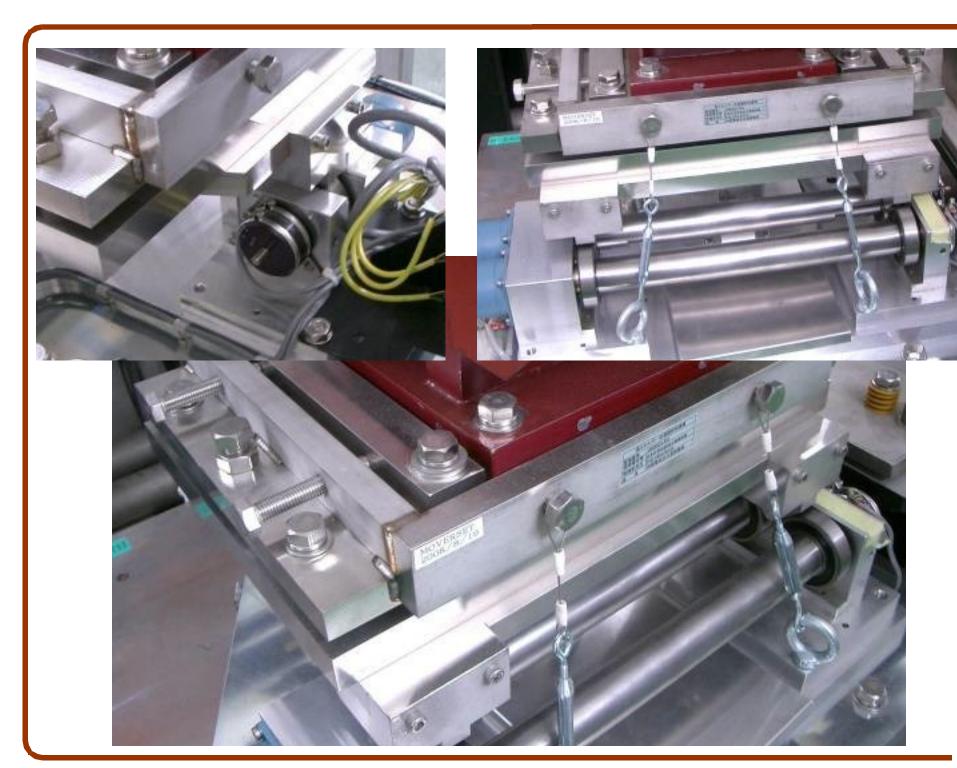
What can be Tested?

- What can be monitored?
 - Profile (size) by wire scanner
 - Position by BPM
 - (Size by Shintake Monitor downstream)
- Evaluation: x-y coupling, high order, stability, reproducibility, etc.
- Practical experience: handling, installation, stability...



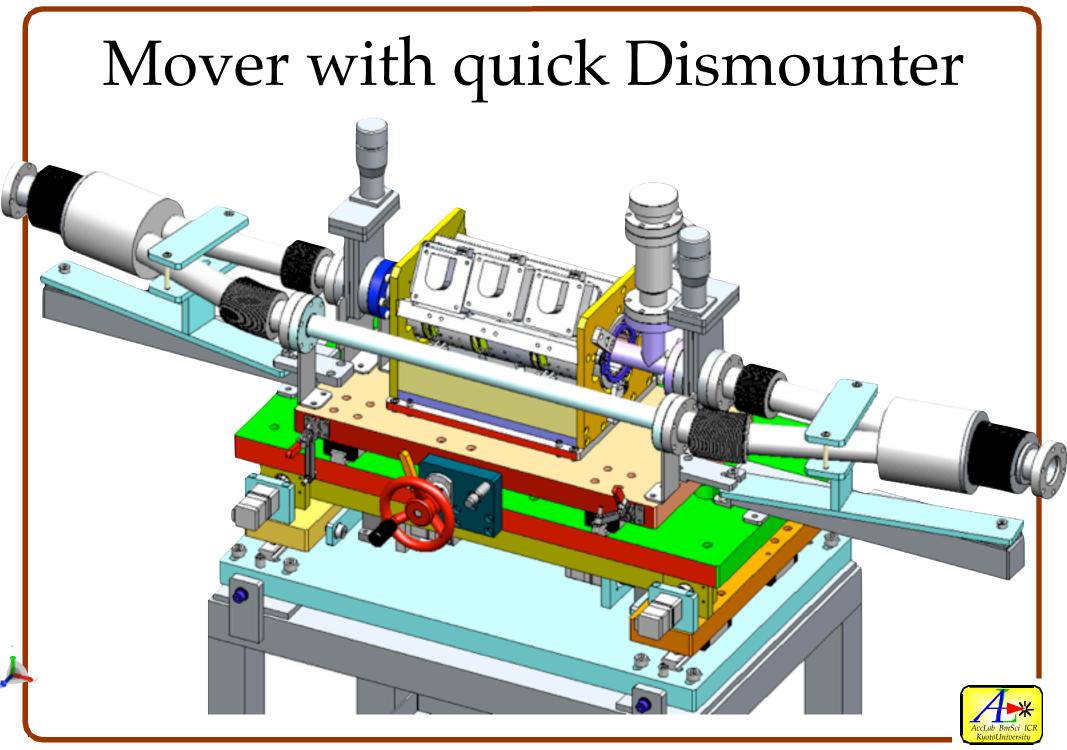
Mover



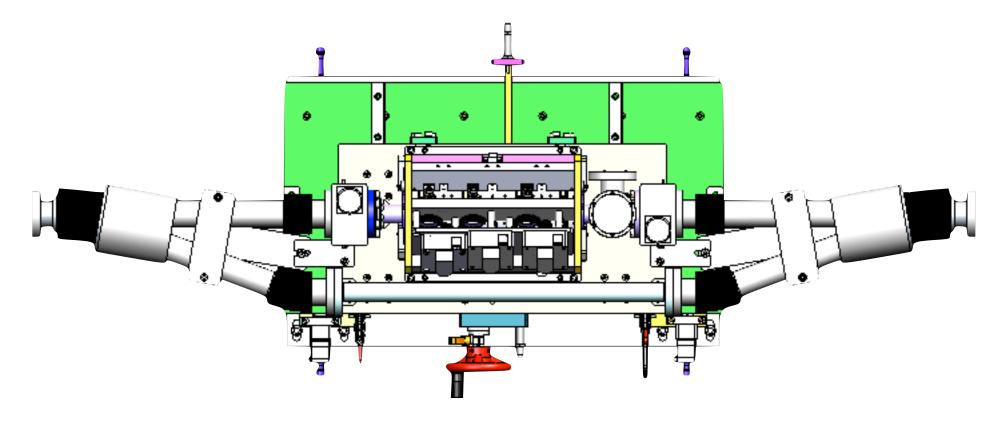








Top View







Study Plan

- Because the test at QD0 position interferes with the current activity, different position was sought.
- We need experiences in using this new device.
- Practical experience can be taken through operation at the upstream (no interfere with the original QD0)
 - → Vacuum flange has to be fixed to the duct after the fabrication.
 - → Develop easy dismantle method.
 - → Vibration evaluation (<50nm?), etc.

