

Non-mover based BBA in Extraction Line

ATF2 commissioning meeting

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We have two approach ...

- 1) We can estimate the quadrupole center with respect to BPM center to compare the orbit difference with the optics model by changing the quadrupole strength.
 - We can perform the BBA with a short beam time, but the error of the optics model makes the ambiguity of the quadrupole center position.
- 2) We will measure the orbit difference by change the quadrupole strength for various beam orbits at the quadrupole with local bumps, and we can find the beam position with minimum orbit difference.
 - We must prepare the program to make local bumps.
 - We will spend the 2 or 3 shift to measure the quadrupole center.

We will measure the BBA for stripline BPMs after the optics modeling measurement.

We must make the following software programs
for the preparation of the extraction BBA measurement.

- 1) “quadrupole–BPM response” program.
- 2) local bump at extraction line.