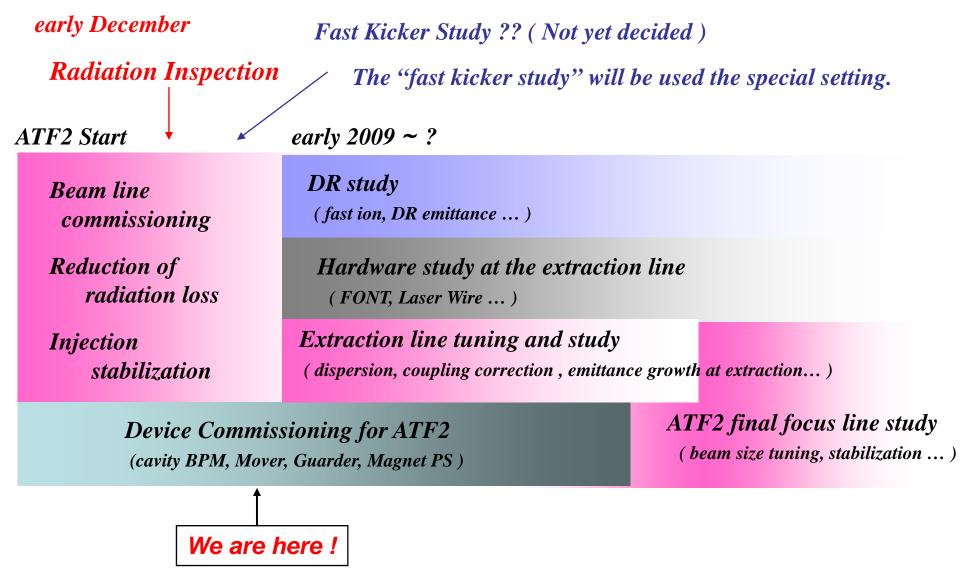
Task Lists of ATF2 commissioning

Toshiyuki Okugi ATF2 Project Meeting 12 / 17 / 2008

Schedules of ATF2 commissioning



January 2009

Hardware works

Install and uninstall of fast kicker and in-vacuum septum magnet.

Install the post-IP C-band BPM

Calibrate the stripline BPM readout electronics

Fine alignment of ext. and ATF2 line magnets

Install the wide aperture QM7R

Install the QS2X

Beam time (Two weeks, 21 shifts)

Fast Stripline Kicker study

Cold Cavity BPM study / RF gun at linac.

If possible,

- DR fine tuning
- DR optics diagnostics and BBA
- Cavity Compton study

and other DR studies

February – March 2009

Hardware works

Realignment of linac and BT line

Install the FONT kicker and BPM

Install the laser wire

Install the IP-BPM?

Beam time (5 weeks, 60 shifts)

30 shifts will be able to spent by DR and other ATF R&D.

DR optics diagnostics

DR emittance tuning

FONT

Laser wire

Fast Ion Study

Cavity Compton

and so on.

ATF2 beam time in February – March (30 shifts or more)

Priority studies are hardware related works

Physical alignment check with beam (kicker, chamber, ...)

Calibration of BPM and BBA (EXT and FF)

Commissioning of carbon wire scanner

Optics modeling and magnet strength test with beam

Commissioning of IP-BSM

Beam tuning developments

Beta matching from DR to EXT (check of QM7R)

Beta matching from EXT to FF

Coupling correction with 2 skew quads

Dispersion correction

Beam size tuning with carbon wire

Slow orbit feedback

April – May 2009

Hardware works

Install the IP-BPM?

Install the sweeping magnets?

Beam time (5 weeks, 60 shifts)

DR and other ATF R&D.

DR optics diagnostics and tuning

FONT, Laser wire, Fast Ion, Cavity Compton, ...

ATF2 studies

Beta matching

Coupling, dispersion correction

Beam size tuning with carbon wire

First trial to beam size tuning with IP-BSM

Slow orbit feedback

IP feedback test?

Discussions

Milestones?

- -Long term (by May 2009)
- -Short-term (every 1 or 2 month)

How to manage the beam time and visiting schedule for outside of KEK collaborators?

- We'd better to discuss the beam time and visiting schedule on Feb. and March. (now or meeting on early January 2009)
- We'd better to have the meeting around Feb. to March to discuss the beam time and visiting schedule of April and May.

What kind of beam optics will use?

When we should install IP-BPM (hardware is ready)?

Small aperture (6mm full height) and difficult to align to center.

When IP-BPM is installed,

- cannot switch back to "Radiation Inspection" optics.

 "Radiation Inspection" optics is easy for cavity BPM calibration and BBA.
- may make the background large.