
Max-Planck-Institut für Physik
(Werner-Heisenberg-Institut)


# ATF2:
# Status at MPI-Munich

# BDS/ATF2 list

- Gouxing Xia (ATF) and I have registered to the ILC-BDS list so that we can keep up with your progress.
- The MPI has an active group working on future accelerating techniques:
  - -- PDPWFA
  - -- Muon cooling

  (where, as you know, "the achievement of small beams is as important as acceleration technique for future accelerators".)
- For the moment we will be "observers", until the manpower situation at MPI becomes clearer, and more may sign up for the ATF2 list in the meantime.

## BDS/ATF2

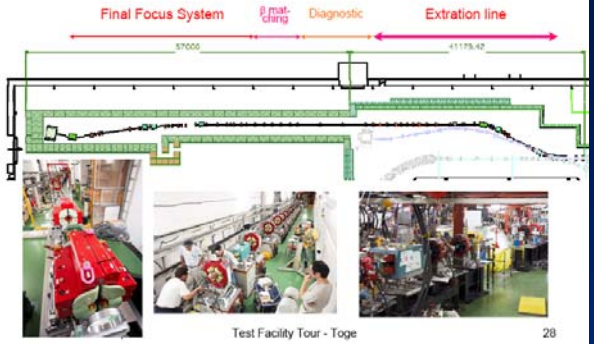
- Although MPI cannot be an active collaborator at the moment, we have already contributed something…

## Test Facilities World Tour

Nobu Toge (KEK)

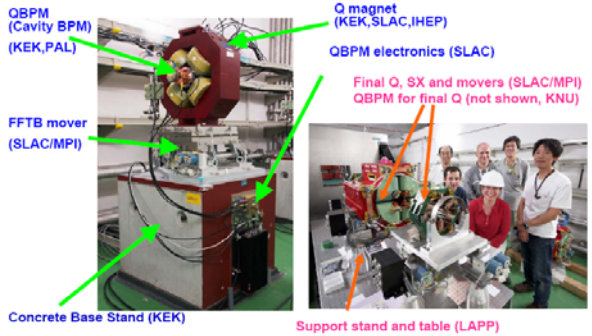
CLIC08 Workshop Test Facility Tour - Toge 1

## ATF2 Layout




Test Facility Tour - Toge 28

## ATF2 – International Collaboration



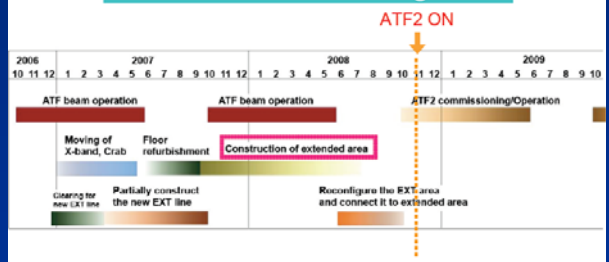

CLIC08 Workshop Test Facility Tour - Toge 29

## ATF2

- ATF2 is
  - a final-focus test beamline, as extended from the beam extraction line of ATF damping ring at KEK.
- Two main missions
  - Achievement of 34nm beam size (vertical)
    - Demonstration of a new compact final focus design, proposed by P.Raimondi and A.Seryi in 2000,
    - Maintenance of the small beam size (Ref: several hours at the FFTB/SLAC)
  - Control of the beam position
    - Demonstration of beam orbit stabilization with nano-meter precision at IP (Ref: beam jitter at FFTB/SLAC was about 40nm.)
    - Establishment of beam jitter controlling technique at a nano-meter level with ILC-like beam (2008 -?)

CLIC08 Workshop Test Facility Tour - Toge 27

## ATF2 – Research Program




Commissioning to start in November 2008

CLIC08 Workshop Test Facility Tour - Toge 30

Focusing of Submicron Beams for TeV-Scale e⁺e⁻ Linear Colliders

PHYSICAL REVIEW LETTERS

# CLIC08 WS 14 OCT 2008

## BDS/ATF2

We will be thinking about possible areas of interest in future; our contribution will depend on the manpower evolution here…