

Introduction and goals of the meeting

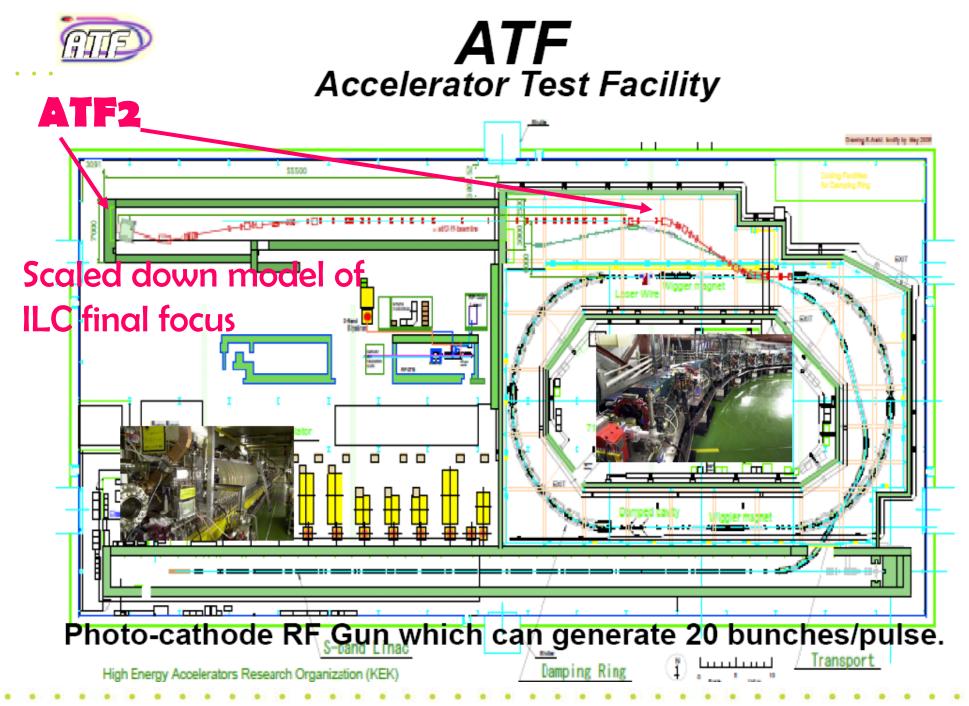
Andrei Seryi, Toshiaki Tauchi Fifth ATF2 Project Meeting December 19-21, 2007

Global Design Effort



Support our UK colleagues

- We would like to start from expressing our complete support to UK colleagues, in this difficult times, when STFC announced withdrawal from ILC and applied pressure of funding cuts to HEP and Universities research
- The worldwide ILC community is mobilized to provide support in many ways
- As one of the actions, the ATF collaboration is preparing letter that will highlight importance of UK contribution to International Research Facilities, such as ATF, stressing that such research give immediate results and may also give direct opportunity for engagement of UK industry



ATF2 construction









Global Design Effort



Photos: Nobu Toge



ATF2 goals & schedule

- ATF2 goals
 - prototype ILC Final Focus system
 - develop FF tuning methods, instrumentation (laser wires, fast feedback, submicron resolution BPMs)
 - learn achieving ~35nm size & ~nm stability reliably
 - possibly test ILC Final Doublet prototype with beam
- ATF2 final goal help to ensure collisions of nanometer beams, i.e. luminosity of ILC
- ATF2 schedule
 - start of commissioning with beam: Autumn 2008
 - commissioning & beam size studies: 2009
 - assessment of beam size studies: beginning of 2010



Importance of ATF2 for EDR

- ATF2 goals are essential for Engineering Design Report phase of ILC
 - The EDR phase extends to the middle of 2010
- ATF2 is one of central elements of Beam
 Delivery System EDR work, as it will address a large fraction of BDS technical cost risk
- ATF2 results on beam size are expected to come within the EDR time, and will affect the EDR
- Assessment of ATF2 studies on beam size are one of the top deliverables of EDR R&D plan
- What does it mean for us:



Preparing for ATF2 start

- Internal friendly reviews by ATF collaboration
 - at the project meetings like this one
- External formal reviews by ILC Project Managers
 - With invited independent reviewers & formal reports to PMs
- The formal PM driven review tentatively suggested for late spring – early summer
- At this 5th ATF2 Project Meeting, we should identify critical path items – they will be the topics of PM driven review



Checking the readiness

- Status of construction
- Status of hardware essential for ATF2 goals
 - How do we mitigate funding difficulties
 - How we focus on key systems
- Overall integration of beamlines
 - Any important systems missed from discussion?
 - E.g. what are specs for electrical noises & plans for grounding?
- Procedures & shift organization
 - How to ensure focus on the primary goals?
 - Is continuous (>week) operation required?
 - How to optimize shift schedule?



Checking the readiness...

- ATF Damping ring readiness
 - Importance of routine achievement of design ϵ
 - Can we do this just with existing hardware?
 - Should methods like MIA be implemented?
 - Standardization & how to guarantee repeatability?
- Readiness of control system for envisioned tuning
 - How contribution of collaborators can be included?
- Readiness for remote participation
 - Number of remote participants will be increasing
 - Will communication hardware be ready?
 - Paper logbooks? Strongly encourage use of e-logs?



Schedule of the meeting

- Review of technical readiness of
 - hardware, production plans
 - installation & integration
 - control system work, etc.
- Planning for the future
 - long term plans Final Doublet upgrade, etc
- Closed session on budget
 - Friday 8am-9am
- Technical Board and System/Group Coordinators meeting
 - Friday afternoon
- Forget the year party on Friday evening!



Let's start

- Next: Conventional facilities and construction schedule
 - Conveners:Junji Urakawa, Nobuhiro Terunuma