

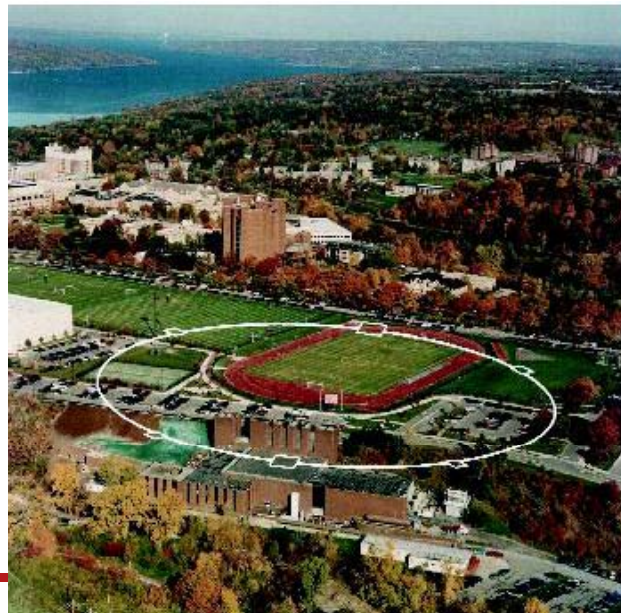


Cornell University
Laboratory for Elementary-Particle Physics

Introduction: Background and Workshop Information July 8, 2008

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Accelerator-Based Sciences and Education*





From all of us here at Cornell...

Welcome to ILCDR08!

We're looking forward to a very productive workshop.



- This is the 4th in a series of ILC Damping Rings Group sponsored R&D Workshops
- Each workshop has focused on a subset of the critical R&D projects necessary for the design of the ILC Damping Rings



- Cornell
- September 26-28, 2008
- 44 participants

The goals of this meeting are to:

*Bring together those involved in R&D on specific topics for the damping rings;
Review the present status and understanding of specific R&D topics through technical presentations and discussions;
Lay out an R&D plan identifying tasks, schedule, people and resources, aimed at achieving the performance specifications for the damping rings on a timescale consistent with the design and construction of the machine.*

The workshop will focus primarily on a few very high priority R&D items.

The proposed list of topics to be covered are:

Injection/extraction Kickers

Conveners: Tom Mattison and Mike Zisman

Electron Cloud

Conveners: Lanfa Wang and Mauro Pivi

Impedance and impedance-driven instabilities

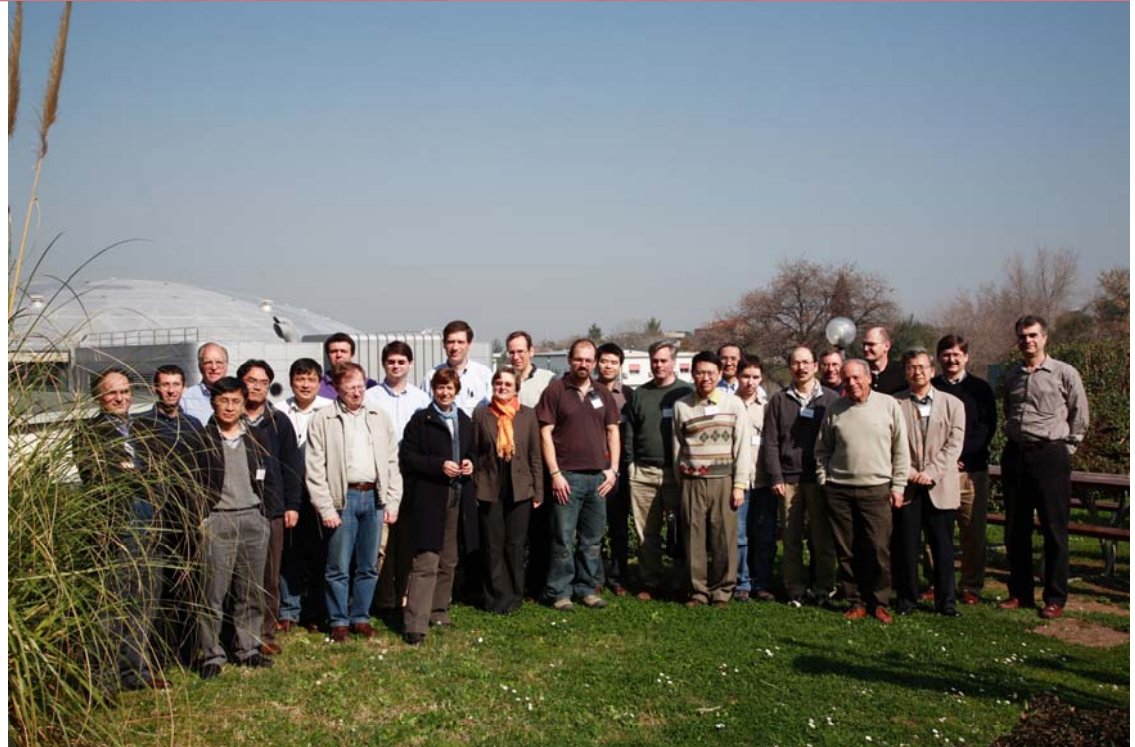
Conveners: Gennady Stupakov and Andy Wolski





- Frascati
- March 5-7, 2007
- 29 Participants

The "ILCDR07 - Damping Rings R&D Meeting" will be held at the Frascati National Laboratories on 5-7 March 2007.



The proposed list of topics to be covered are:

1. ION EFFECTS

** Conveners: Marco Venturini and Guoxing Xia*

2. LATTICE DESIGN

** Conveners: Susanna Guiducci and Mark Palmer*

3. LOW-EMITTANCE TUNING

** Conveners: Mike Zisman, Kiyoshi Kubo and Yunhai Cai*



- KEK
- December 18-20, 2007
- 39 Participants

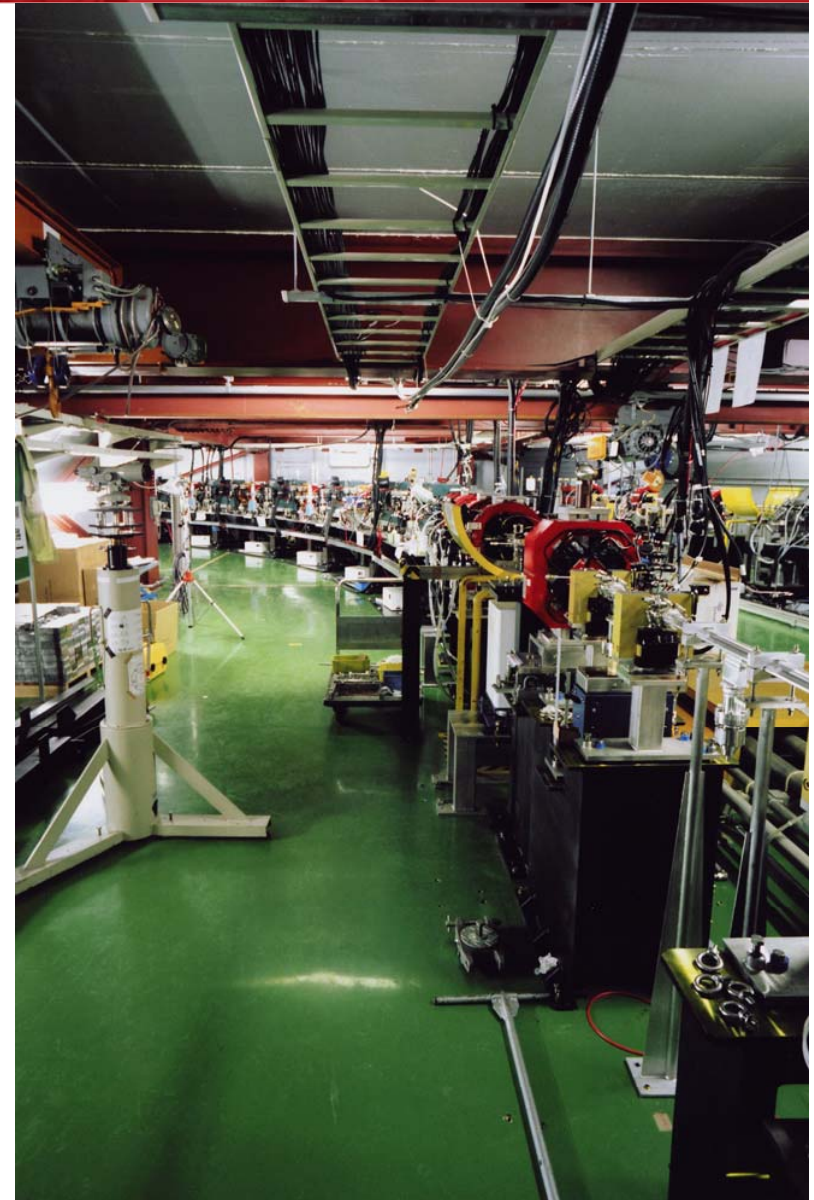
On behalf of the ILC Damping Rings Area Group, you are invited to attend the 2007 Damping Rings Mini-Workshop at KEK. The goals of the workshop are to provide an opportunity for discussion of progress in R&D for the ILC damping rings in the areas of:

- * Electron Cloud
- * Fast Injection/Extraction Kickers
- * Impedance and Impedance Effects

and to review plans for further R&D in these areas through the ILC Engineering Design Phase.

Conveners for the parallel sessions are:

- * Mauro Pivi - Electron Cloud
- * Tom Mattison - Fast Kickers
- * Marco Venturini - Impedance and Impedance Effects





- **December 2007 to now...**
 - Challenging times for the US and UK ILC effort
 - Impact on key collaborator support for CEsrTA and ILC R&D program (UK & US)
 - Wiggler vacuum chamber design/construction
 - Chamber coating support
 - Simulation support
 - Low emittance tuning
 - Experimental support
 - Layoffs and early termination of existing programs (CESR-c on March 3 & PEP-II on April 7)



- **Goals for this workshop are two-fold:**
 - Continue the reorganization of the ILC Damping Rings Effort for the ILC Technical Design Phase
 - Re-scoped plan
 - Bring together experts on low emittance tuning and electron cloud effects to provide guidance and suggestions for the CsrTA program
 - 2 years of flexible experimental operations - need to maximize the impact of the program
 - Explore synergies with other electron cloud and low emittance tuning groups
 - Explore options for collaboration in the new budget environment
 - Get input to ensure that we carry out the most important experiments to provide a viable damping ring design when it is time to move forward with the construction of a linear collider



- We hope that the talks you hear over the next few days will provide each of you an opportunity to review the present state of electron cloud and low emittance tuning work
- We would then ask that the members of each working group take those talks as input to help us develop a more detailed course of action
 - Long-term – to make sure that we carry out an effective R&D plan to prepare for the final design and construction of a linear collider
 - Immediate – to make sure that we have identified the key measurements to pursue with CEsrTA and to make sure the CEsrTA effort is coordinated with related efforts world-wide



- **Folder should have:**
 - Campus map
 - Map of Collegetown restaurants
- **Food**
 - At the end of the morning sessions, several locals will be able to help direct you to places to eat
- **Parking**
 - Since a number of participants are driving themselves, parking passes to park at Wilson Lab will be available for those who would like to park there
- **Conference Help**
 - Hopefully all of you have now been able to attach to the campus Red Rover service. If not, Mike Roman is available this morning to help you get set up.
 - For any other problems, please see Monica Wesley or myself
- **Talks**
 - You should all have permission to upload your talks (but let me know if you encounter difficulties...)



- Those of us at Cornell would like to wish you all an enjoyable and productive stay in Ithaca

- A special thanks to:
 - The Program Committee
 - The Conveners
 - Everyone who has agreed to participate