

ML Planning for ILC08

First Pass + SCRF agenda

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WG Charge – In 21 hours,

- Review current status of global ILC R&D and future plans, for both the baseline configuration as well as the supported alternative designs;
- Review and plan activities in and around Test Facilities (both existing and proposed);
- Identify and prioritize critical R&D milestones for TDP-1 and beyond.
- Promote and improve collaboration between groups working on ILC related R&D:

TD Milestones

- April 2009 (KEK): Critical in-depth technical review by the Accelerator Advisory Panel (AAP)
- January 2010: Re-baseline of the ILC design, in preparation for TD Phase 2
- July 2010 (Paris): Publication of the TD Phase 1 interim report at ICHEP

ML Topics – 9 hrs

- Progress on achieving gradient (S0)
 - Reports from three regions
 - TTC summary on topics on covered at ILC08
 - Status of alternatives (60 mm designs, large grain)
- Status of Facilities and Horz/CM testing (S1/S2)
 - Reports from three regions
 - S1 Global progress
- Toward Plug Compatibility
 - He vessel (material, pressure vessel constraints, ..)
 - Tuners
 - Couplers (OD, location, Q control, cryo losses)
- Cryomodule Design
 - Refinement of design in the three regions
 - Cryogenics optimization (heat shield, pipe sizes)

ML Topics – 6 hrs

- HLRF/LLRF
 - XFEL HLRF test results
 - Status of alternatives (Marx, SBK, PDS at SLAC/FNAL and KEK, ATCA)
 - Klystron Cluster Concept
 - LLRF measurements at FLASH (9 mA progress and measurements of overhead contributions)

ML Topics – 4 hrs

- Quad Package
 - Magnet measurements at SLAC and FNAL
 - Magnets for XFEL
 - BPM progress
- Beam Dynamics and Wakefields
 - Summary of on-axis coupler and rf kicks
 - Linac alignment specifications
 - Dipole Mode Properties
 - HOM heating
- RTML
 - To be planned by Nikolay

ML Topics – 2 hrs

- Preparation for AAP
 - Guidance from PM on scope
 - Tentative assignments of who will cover what
- Preparation for ILC08 closeout / overflow
 - Prepare summary reports

ML Session Overview

	Primary Session	Secondary Session	Other Groups
Monday	Cavities and Cryomodule		HLRF meet with CFS
Tuesday	HLRF/LLRF	Cryomodule Design Details	
Wednesday	MLI, Beam Dynamics and RTML	LLRF Studies at Flash	

ML Topics – SCRF

Monday(Nov.17) morning

- Progress on achieving gradient (S0)
 - TTC summary on High gradient R&D (.....)
 - New Reports from three regions (not presented at TTC) (.....)
 - New topics (not presented at TTC) (.....)
 - Status of alternatives (60 mm designs, large grain) (.....)
 - Plans for TDP1 period (.....)

Monday(Nov.17) afternoon

- Status of Facilities and Horz/CM testing (S1/S2)
 - TTC summary on module test and plan (.....)
 - New Reports or topics (not presented at TTC) (.....)

 - S1-Global status report (Norihito Ohuchi)
 - S1-Global detail plan discussion for in-kind contribution, joint assembly, joint experiment (Akira Yamamoto, Hitoshi Hayano)

ML Topics – SCRF

Tuesday(Nov.18) morning

- Toward Plug Compatibility
 - He vessel (material, pressure vessel constraints, ..)
 - Tuners
 - Couplers (OD, location, Q control, cryo losses)
 - Interface location discussion (.....)
 - Summary document for plug compatibility (.....)

Tuesday(Nov.18) afternoon

- Cryomodule Design and Tests
 - module status report from each region (.....)
 - New Reports or topics on the module performance and design (.....)
 - 5K shield removal experiment (.....)
 - H.P. Vessel code discussion (.....)