

TDR Editorial Board WG Proposed schedule for KILC

John Carwardine

28 March 2012

Korean ILC meeting: Mon-Thu 23-27 April

Program

	April 23 (Mon)	April 24 (Tue)	April 25 (Wed)	April 26 (Thur)	April 27 (Fri)
Morning	Opening Ceremony Joint Plenary	Parallel Sessions	Parallel Sessions	Parallel Sessions	Free Excursion
Afternoon	ACFA/GDE Plenary	Parallel Sessions	Parallel Sessions Joint Plenary	ACFA/GDE Plenary Joint Plenary	
Evening	Welcome Reception			Banquet	

Proposed schedule for KILC cost reviews (Dugan)

Proposed schedule of cost review meetings at KILC-12								
Room B1-8								
Time (hr)	April 24, Morning	Contact	Time (hr)	April 25, Morning	Contact	Time (hr)	April 26, Morning	Contact
0.5	Electron Source	J. Sheppard	3	Conventional Facilities	V. Kuchler	3	SCRF (Cavity and Cryomodule)	A. Yamamoto
1	Positron Source	W. Gai						
1.5	Damping Rings	M. Palmer						
Time (hr)	April 24, Afternoon		Time (hr)	April 25, Afternoon				
1	Ring to Main Linac	N. Solyak	0.5	Main Linac (ex RF and Cavity/CM)	C. Anderson			
1	Beam Delivery System	A. Seryi	1.5	High Level RF	S. Fukuda/C. Nantista			
1	Cryogenics	T. Peterson						

Are the contacts appropriate in each case (and will they be at KILC-12) ?

TDR production at KILC

KILC is the due date for submitting content for TDR Parts I and II

- **KILC is the only remaining GDE meeting before the October due-date for submitting the finished TDR content to the EC**
- Most (but not all) the primary authors will also be at KILC
- How to take advantage of the face-to-face time...
 - in part depends on what is submitted
- An all-authors webex meeting is being planned for next week
- **TDR Editorial Working Group Goals**
 - 1. Develop a skeleton for the integrated TDR from the figures & tables
 - 2. Walk through the submitted content with the corresponding chapter authors
 - 3. Identify any open issues associated with the authoring process
 - 4. Begin the editorial process

Joint parallel sessions with GDE WGs and TEB Working Group

- Submitted text should be reviewed in smaller one-on-one meetings between authors and corresponding editors
- Probably not productive to go through text in a parallel session, so how should we best utilize the face-to-face time to make forward progress...
- Joint sessions between TEB WG and other WGs to develop a skeleton of the TDR content based on the outline, figures and tables for each chapter
 - Expected attendance: chapter main authors, the corresponding Editor Troika, PM(s) as appropriate
 - Authors should present for discussion the proposed figures and tables and their order as they would appear in the chapter
- The amount of time needed for each joint session depends in part on the scope of the respective chapters and preparedness of the authors

TDR-I Authors registered

Ch	Sect	Heading	Pages	Primary	Author present?
		PART I: ILC R&D in the Technical Design Phase	280		
1		Introduction	10	Walker	Y
2		Evolution of the ILC design in the Technical Design Phase	10	Walker	Y
3		Superconducting RF technology	95	Yamamoto	Y
3	1	Overview	5	Yamamoto	Y
3	2	Development of world-wide SCRF R&D infrastructure	10	Kerby	Y
3	3	High-gradient SCRF cavity R&D and the yield evaluation	15	Geng	Y
3	4	Cavity integration	15	Hayano	Y
3	5	The S1-Global experiment	15	Hayano	Y
3	6	Cryomodule, cryogenic thermal balanced and quadrupole R&D	10	Pierini	N
3	7	RF power generation and distribution	15	Fukuda	Y
3	8	R&D toward mass-production and design for manufacture	10	Kerby	Y
4		Beam Test Facilities	70	[Editor]	
4	1	Overview	5	Ross	Y
4	2	FLASH 9mA Experiment	15	Carwardine	Y
4	3	CesrTA and electron-cloud R&D	15	Palmer	Y
4	4	ATF2 Final Focus experiment	15	Tauchi	?
4	5	Fermilab/NML (beam) facility	10	Nagitsev	N
4	6	Quantum beam experiment	10	Hayano	Y
5		Accelerator Systems R&D	70	[Editor]	
5	1	Overview	5	Ross	Y
5	2	Electron source	10	Sheppard	Y
5	3	Positron source	15	Gai	Y
5	4	Damping rings	15	Guiducci	N
5	5	Beam Delivery System and MDI	15	Seryi	?
5	6	Beam dynamics (simulations)	10	Kubo	Y
6		Conventional Facilities and Siting Studies	10	Kuchler	Y
7		Post-TDR R&D	10	Ross	Y
8		Summary	5	Walker	Y

TDR-II Authors registered

		Part II: The ILC Baseline Reference	338		
1		Introduction and overview	5	Paterson	Y
2		General parameters and layout	15	[Editor]	
3		SCRF Main Linacs	50	Yamamoto	Y
3	1	Main linac layout and parameters		5 Adolphsen	Y
3	2	Cavity performance and production specifications		10 Yamamoto	Y
3	3	Cavity integration (couplers, tuners etc.)		10 Hayano	Y
3	4	Cryomodule design including quadrupole and cryogenic systems		10 Perini	Y
3	5	RF Systems, including power distribution and LLRF		15 Fukuda, Nantista	Y
3	6	Cavity and cryomodule test		Hayano	Y
4		Electron source	10	Sheppard	Y
5		Positron source	20	Gai	Y
5	1	Top-level parameters and layout			
5	2	Undulator section			
5	3	Photon collimation			
5	4	Photon target			
5	5	Adiabatic matching device			
5	6	pre-acceleration section (400 MeV)			
5	7	5 GeV booster linac, spin rotation and injection to DR			
5	8	Performance (yield, polarisation) simulations			
5	9	Magnets and power supplies			
5	10	Vacuum system			
5	11	Instrumentation and feedback systems			
6		Damping Rings	25	Guiducci	N
7		RTML	20	Solyak	N
8		Beam Delivery System and MDI	25	Seryi	?
9		Global Technical Systems	26		
10		Commissioning, Operations, and Availability	15	Ross	Y
11		Conventional Facilities and Siting	42	Kuchler	Y
12		Upgrade options	20	[Editor]	
13		Scope of post-TDR engineering (tech. risk assessment)	20	Ross	Y
14		Project Implementation Planning	20	Harrison	Y
15		Cost and Schedule	20	Dugan	Y
16		Summary	5	Walker	Y

Proposed Joint Sessions with TEB WG

Goal: develop skeleton using figures & tables (to be presented by authors)

	Monday (4/23)	Tuesday (4/24)		Wednesday (4/25)		Thursday (4/26)	
Part # Editors		TDR-I (R&D) HH, JK, EE	TDR-II (Baseline) NP, NT, PB	TDR-I (R&D) HH, JK, EE	TDR-II (Baseline) NP, NT, PB	TDR-I (R&D) HH, JK, EE	TDR-II (Baseline) NP, NT, PB
Morning 1	KILC Plenary		CFS WG: Civil Design, Siting studies	SCRF WG: HLRF FLASH, QBE, NML	BDS/MDI Detectors RTML		Sources WG: E+, E-
Morning 2	KILC Plenary		CFS WG: Utilities, S&A, Installation		SCRF WG: Main Linac	TEB WG	
Afternoon 1	GDE Plenary	SCRF WG: Cavities, CM	PMs: Upgrade, Post-TDR, PIP,..	DR WG: CesrTA, DR R&D, DR Baseline		GDE Plenary	
Afternoon 2	TEB WG	SCRF WG: Cavities, CM	Open slot for 'anything else': Tech Systems, Avail, Comms/ops,...		Costing WG: Costs, Bases of estimates	KILC Plenary	

Some TDR-I topics are not shown in this plan: E+, E-, BDS/MDI, RTML
Scheduling conflicts..?

WG Notes – taken during ADI mtg

- Sources (Wei)
 - See slide
- DR (Mark P)
 - Tues AM: Costing
 - Tues PM: TDR (Mark's request because they want Wed dedicated to e-cloud)
 - Wed AM: E-cloud mitigation, vac sys
 - Wed PM: meet with super-KEK group for vac chamber
 - Thurs AM: lattice update, error studies
- SCRF / Main linac
- BDS / MDI
 - (MDI) Tom M: Tauchi is planning one joint session with CFS and one joint session with BDS
- Beam Dynamics
 - Nikolay: Kubo is going to be there. Can present remotely design for linac, central region,.. Designs
- CFS