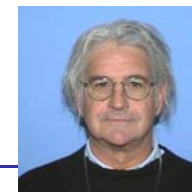




September 24-25, 2007



ILC Electron Systems Engineering
Design Kick Off Meeting,
Stanford Linear Accelerator Center

Introduction

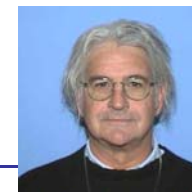
J. C. Sheppard

SLAC

September 24, 2007



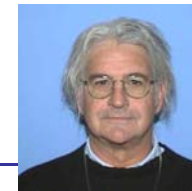
Nominal Source Parameters



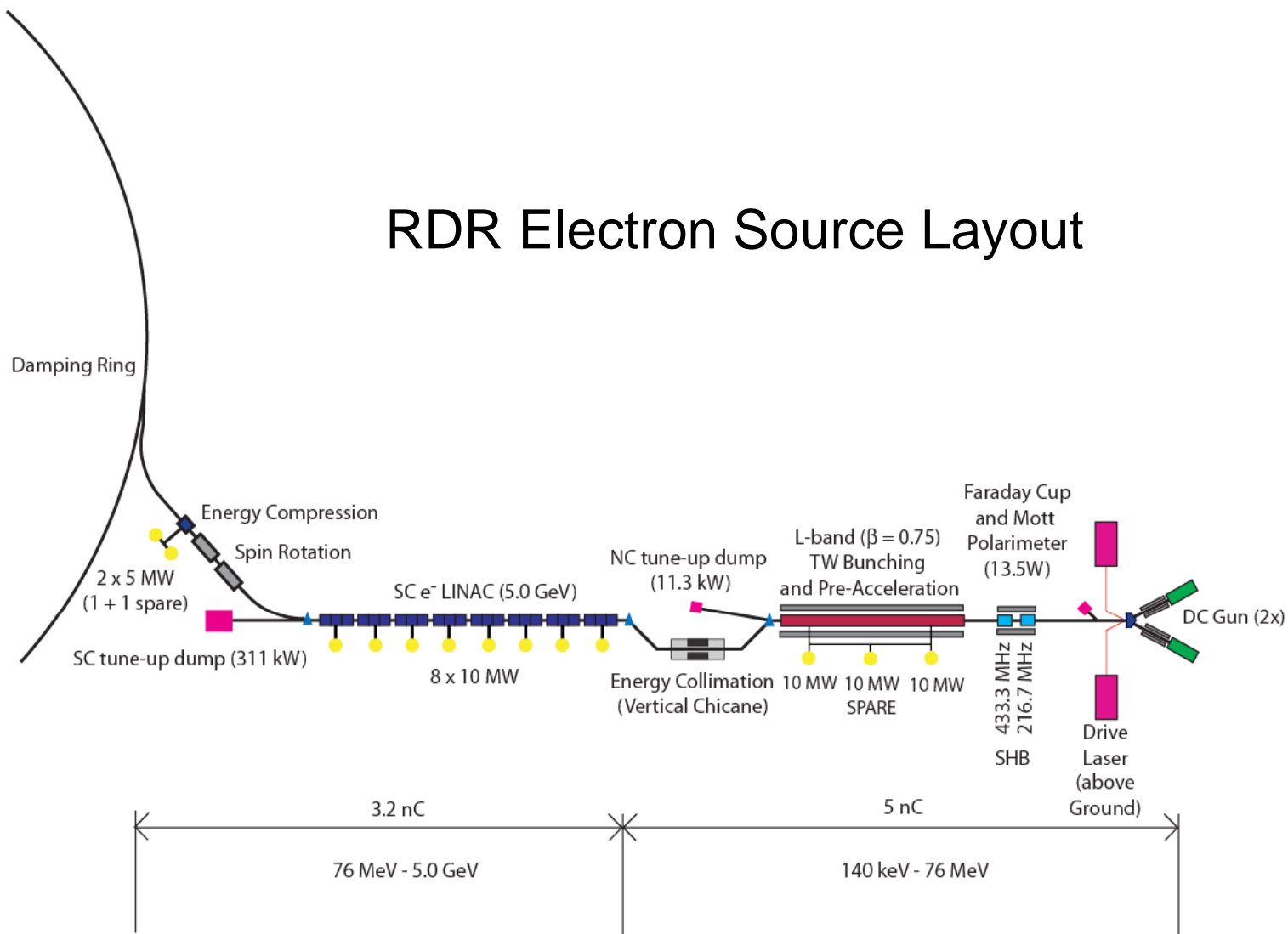
Parameter	Symbol	Value	Units
Bunch Population	N_b	2×10^{10}	#
Overhead Factor	F	1.5	#
Bunches per pulse	n_b	2625	#
Bunch spacing	t_b	369	ns
Pulse repetition rate	f_{rep}	5	Hz
Injection Energy (DR)	E_0	5	GeV
Beam Power (x1.5)	P_o	300	kW
Polarization e-(e+)	P	80(30)	%



Electron Source Layout



RDR Electron Source Layout



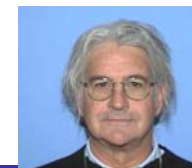
September 24, 2007

J.C. Sheppard/SLAC

Slide 3



ILC e- Kick Off Meeting



e- source - KOM, Kavli Bldg. 3rd floor conf. room

from **Monday 24 September 2007 (08:00)**
to **Wednesday 26 September 2007 (18:00)**
at **SLAC**
chaired by:
Axel Brachmann (SLAC)

Monday 24 September 2007

[top](#)↑

09:00	Introduction (30)	Axel Brachmann (SLAC) , John Sheppard (SLAC)
09:30	View from the Project Management Office (30)	Nicholas Walker (DESY) , Marc Ross (FNAL) , Junji Urakawa (KEK)
	Overview of the Engineering Design phase. What must we achieve? Purpose of this meetings.	
10:00	The RDR Design (45)	Axel Brachmann (SLAC)
10:45	break	
11:00	The RDR Cost Estimate (1h00)	Axel Brachmann (SLAC)
12:00	RDR - CFS (45)	Fred Asiri (SLAC)
12:45	Lunch	
13:45	Planning the EDR Phase (45)	John Sheppard (SLAC)
14:30	Lattice Simulations & Spin Transport (45) (Slides)	Feng Zhou (SLAC)
15:15	break	
15:30	Special Instrumentation (30)	Axel Brachmann (SLAC)
16:00	R&D Program in Japan (1h00)	Masao Kuriki (KEK) , Yamamoto

September 24, 2007

J.C. Sheppard/SLAC

Slide 4



ILC e- Kick Off Meeting



e- source - KOM, Kavli Bldg. 3rd floor conf. room

from **Monday 24 September 2007 (08:00)**
to **Wednesday 26 September 2007 (18:00)**
at **SLAC**
chaired by:
Axel Brachmann (SLAC)

Tuesday 25 September 2007

[top](#)↑

09:00	Milestones & Resources in Detail (30)	John Sheppard (SLAC)
09:30	Polarized RF – Gun - Alternative beyond Baseline (30)	Jorg Kewisch (Brookhaven National laboratory)
10:00	Work Packages & Organisational Structure (1h00)	John Sheppard (SLAC)
11:00	break	
11:15	e- source NC RF structures (30)	Juwen Wang (SLAC)
11:45	e- Source Laser System (30)	Axel Brachmann (SLAC)
12:15	Photocathodes for polarized Beams (30)	Takashi Maruyama (SLAC)
12:45	Lunch	
13:45	Polarized DC Gun (30)	M. Poelker
14:15	Source Issues and SLAC's ITF (30)	James Clendenin (SLAC)
14:45	Discussion and Wrap-Up (1h00)	John Sheppard (SLAC)

Note: This meeting room is reserved through September 26, 2007



ILC e- Kick Off Meeting



Dr. Axel Brachmann of SLAC is the EDR Level 2 Manager

The EDR Design Activities are for the most part centered at SLAC

There are proposed R&D activities at SLAC, JLab (M. Poelker), BNL (J. Kewisch), and in Japan (M. Kuriki)



ILC e- Kick Off Meeting



By-in-Large, we have a good handle of the technical issues for the EDR:

What is in the electron source

What needs development

How to do engineering designs and cost estimates



ILC e- Kick Off Meeting



By-in-Large, we do not have a good handle on the EDR itself:

What is in the scope of the EDR

What is the breadth of the EDR

What ILC resources are available for integration activities (technical systems work)

How to acquit the various ILC ED Project protocols:
EDMS; Costing Code of Secrecy; RDB; CRD;
IAOG; ICEG; AAB; Work Package Allocation

EDR and ILC Schedule



ILC e- Kick Off Meeting



So, Let's have a meeting to discuss and resolve issues, questions, and uncertainties.



ILC e- Kick Off Meeting



e- source - KOM, Kavli Bldg. 3rd floor conf. room

from
Monday 24 September 2007
(08:00)

to
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(18:00)

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Monday 24 September 2007

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September 24, 2007

J.C. Sheppard/SLAC

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