

Injectors and Damping Rings working group

S. Guiducci, L. Rinolfi

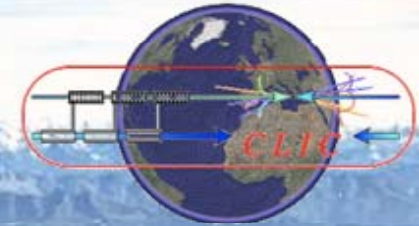
CLIC08 Workshop

CERN 14 October 08



CLIC08 Workshop

CERN, 14-17 October 2008



Wednesday 15 October, 354-1-001, 8:30 - 18:00 Injectors & DRs

Thursday 16 October, 60-6-002, 8:30 - 10:30 **Common session:**
Injectors & DRs, Instrumentation, LC Test Facilities

354-1-001, 10:30 - 18:00 Injectors & DRs

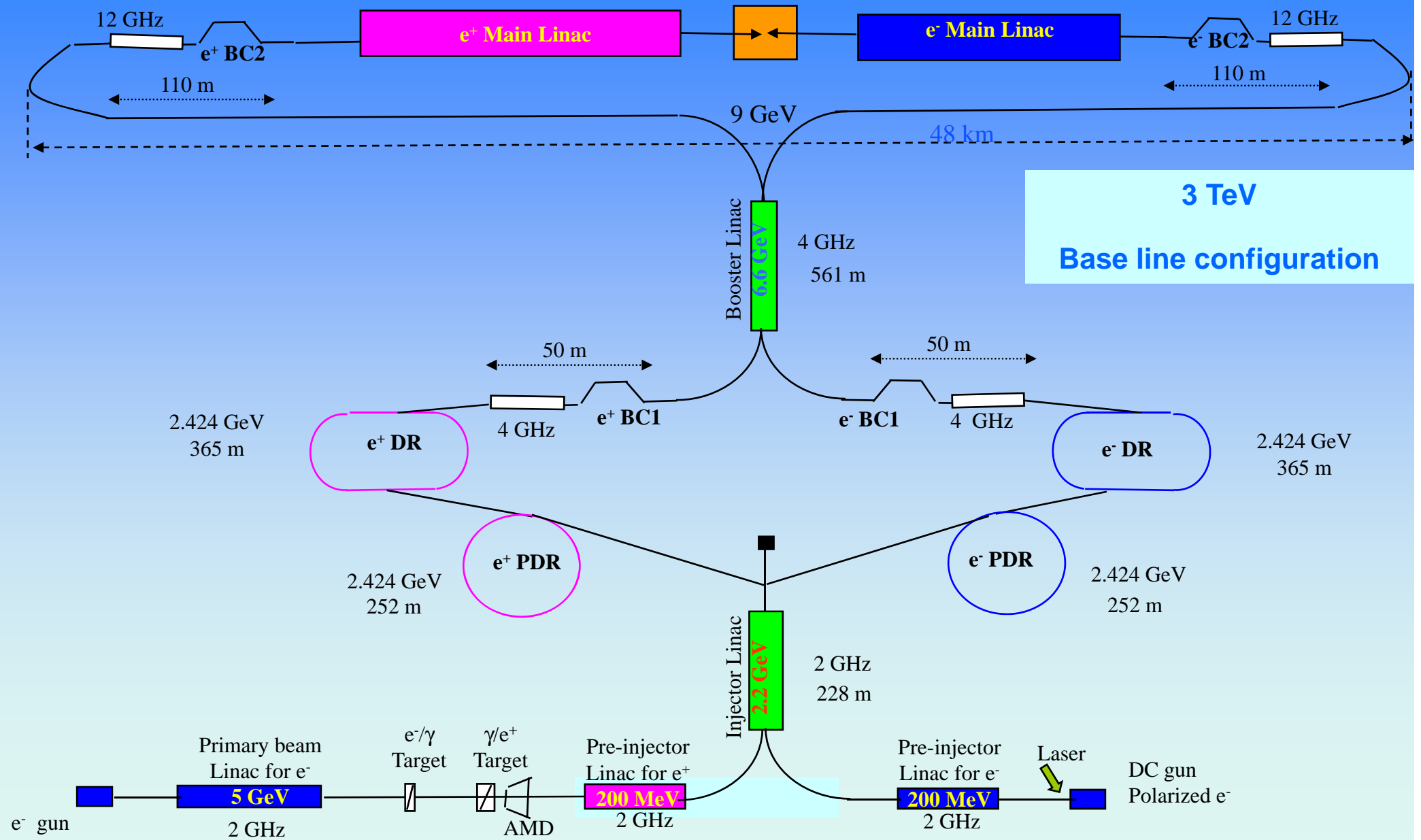
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- Program Advisory Committee
- Local Organising Committee

CLIC'08 is an Accelerator and Physics Workshop which follows the very successful 1st Workshop of this kind held at CERN in Oct 2007.

The Aims of CLIC08 are:

- Review the R&D towards CLIC Feasibility Demonstration and Conceptual Design Report in 2010. This includes Items of ILC-CLIC Common Interest as defined in the recently established ILC-CLIC Collaboration.
- Identify the R&D, Facilities and Engineering Efforts needed in the period after 2010 to progress from a Conceptual Design to a Technical Design.
- Address Particle Physics and Detector Issues of a Multi-TeV Linear Collider.

CLIC Main Beam Injectors Complex Layout



Injectors Session

Wednesday 15 October

8:30	CLIC Injector complex review	L. Rinolfi / CERN
9:10	Overview of DR to ML transport	F. Stulle / CERN
9:40	Beam dynamics in the Linacs	A. Latina / FNAL
10:30	Collective effects in the Transfer Lines and Damping rings	G. Rumolo / CERN
11:00	An hybrid positron source for CLIC	R. Chehab / IPNL
11:30	ILC/CLIC common issues for Compton	J. Urakawa / KEK
12:00	Optical cavity and laser system for the Compton	A. Variola / LAL
14:00	Undulator scheme for CLIC	W. Gai / ANL
14:30	Undulator option for polarized e+	I. Bailey / L. Zang / Cockcroft Institute

Damping Rings Session

Wednesday 15 October

15:00	Surface treatment for e- cloud mitigation	M. Taborelli / CERN
15:50	CLIC damping rings overview	Y. Papaphilippou / CERN
16:40	Nb3Sn wiggler design progress	R. Maccaferri / CERN
17:00	NbTi wiggler design progress	P. Vobly / BINP
17:30-18:00	General Discussion	

Common Session

Thursday 16 October

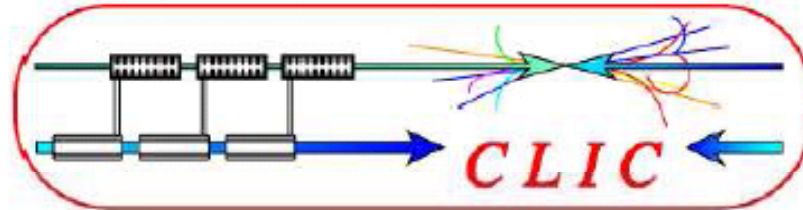
Injectors & Damping Rings, Instrumentation, Linear
Collider Test Facilities

8:30	Linear and non-linear correction using turn-by-turn BPM data	R. Tomas / CERN
9:00	High precision emittance measurements in the SLS	A. Andersson / PSI
9:30	Damping Ring BPM developments	M. Wendt / FNAL

Damping Rings Session Thursday 16 October

10:30	ILC/CLIC common issues for DR	S. Guiducci / LNF
11:00	IBS studies for the CLIC Damping Rings	M. Martini / CERN
11:30	Analytical considerations for minimum emittance lattices - Application to CLIC PDR	F. Antoniou / CERN
12:00	Stacking issues in the PDR for polarized e^+	F. Zimmermann / CERN
14:00	CLIC DR lattice optimized for low emittance and high SR power evacuation	K. Zolotarev / BINP
14:30	Optimized lattice for SuperB machine	P. Raimondi / LNF
15:00	RF considerations for the CLIC damping rings	A. Grudiev / CERN
16:00	Impedance model of ILC DR	M. Korostelev / CI
16:30	3D simulations in wigglers	R. Rossmanith / ANKA
17:00	Radiation wake fields	R. Tucker / Lancaster
17:30	Summary of working group	S. Guiducci / LNF
18:00		L. Rinolfi / CERN

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
CERN - AB DEPARTMENT



CLIC-Note-764

CLIC 2008 PARAMETERS

H. Braun, R. Corsini, J.-P. Delahaye, A. De Roeck, S. Doebert, G. Geschonke, A. Grudiev, C. Hauviller,
B. Jeanneret, E. Jensen, T. Lefevre, Y. Papaphilippou, G. Riddone, L. Rinolfi, W.-D. Schlatter, H. Schmickler,
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The document on-line has several references which have been skipped related to the Injector Complex chapter. Please ask electronic file to:

Sonia Escaffre or Frank Tecker for the correct version.

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