Main and Drive Beam Dynamics

Charge

The drive and main beam dynamics working group will focus on the drive beam complex and the main beam transport lines from the damping ring to the IP. We will review the status of the design and performance studies of the different beam lines in view of the CLIC feasibility demonstration and the Conceptual Design Report to be delivered in 2010. In particular, the beam driven specifications of the beam line components will be discussed. The remaining necessary R&D, experimental programme and technical efforts will be identified. Items of common interest to ILC and CLIC as defined in the recently established ILC-CLIC Collaboration will also be included.

Wednesday Morning

- 08:30->10:00 With Instrumentation, RF Structures & Sources Council Chamber
- Beam Dynamics Requirement for RF and Instrumentation:
- Main Linac Beam Dynamics, Daniel Schulte (CERN)
- Drive Beam Dynamics, Erik Adli (CERN/Oslo)
- Phase Stability Requirements, Daniel Schulte (CERN)

- 10:30->12:30 With Instrumentation in Room 40-S2-C01
- Overview of CLIC instrumentation requirements, Thibaut Lefevre (CERN)
- Overview of ILC instrumentation, Marc Ross (FNAL)
- LHC Beam Instrumentation : The Experience of Large Scale Beam Instrumentation Design, Manufacture, Test and Installation, Rhodri Jones (CERN)

Wednesday Afternoon

- 14:00-16:00 Alone, 40-S2-C01
- Status of Combiner Ring Studies, Caterina Biscari (LNF-INFN)
- RF Deflector Studies, David Alesini (LNF-INFN)
- Main Linac Feedback Studies, Peder Eliasson
- Fast Beam-Ion Instability in the CLIC Main Linac, Giovanni Rumolo (CERN)
- Collimator wakefileds, Steve Maltone (RHUL)

- 16:30->18:00 With RF Structure & Sources, Council Chamber
- Tolerances, Riccardo Zennaro (CERN)
- On-off, Options and Operation, Igor SYRATCHEV (CERN)
- PETS Computation and Design, Igor SYRATCHEV (CERN)

Thursday Morning

- 08:30->10:10 With Technical Issues, Integration & Cost, 40-S2-C01
- Simplified Alignment Model for Beam Dynamics Simulations for ILC, Kiyoshi Kubo (KEK)
- Pre-Alignment Study Status and Model for the Beam Dynamics Simulations, Hélène MAINAUD DURAND (CERN) , Thomas Touze (Universite de Paris VII/CERN)
- Recent Ground Motion Measurements at CERN, Kurt Artoos (CERN)

- 10:30->12:30 Alone, 40-S2-C01
- RTML Design and Rational for ILC, Nikolay Solyak (FNAL)
- ILC RTML Performance, Andrea Latina (FNAL)
- RTML Design Status for CLIC, Frank Stulle (CERN)

Thursday Afternoon

- 14:00->15:30 With Linear Collider Test Facilities and Beam Delivery System, Room 60-6-002
- ATF2 & ILC alignment & tuning strategies, Glen White (SLAC)
- Alignment studies: Decelerator and CTF3, Erik Adli (CERN/Oslo)
- CLIC BDS alignment and FFS tuning also for ATF2 ultra-low betas, Rogelio Tomas (CERN)
- The ATF2 final doublet system, Andrea Jeremie (LAPP)

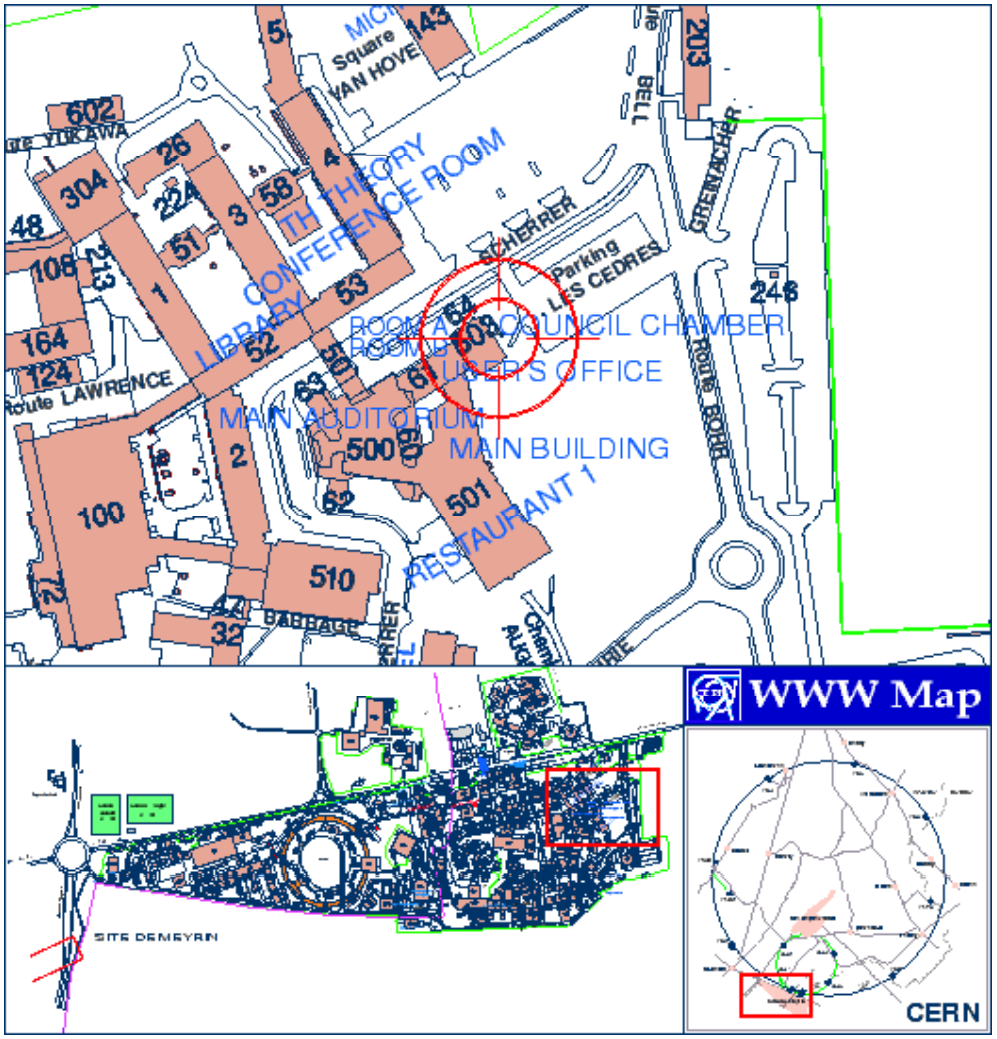
- 16:00->19:00 Alone, Room 40-S2-C01
- Overview of Issues for the CLIC Drive Beam Complex, Bernard Jeanneret (CERN)
- Examples of PLACET Use for the DriveBeam, Erik Adli (CERN)
- Discussion of Work Items
- 17:30 ILC-CLIC Collaboration
- Preparation of Summary

Council Chamber

Wednesday first morning session

Last afternoon session

With structure people

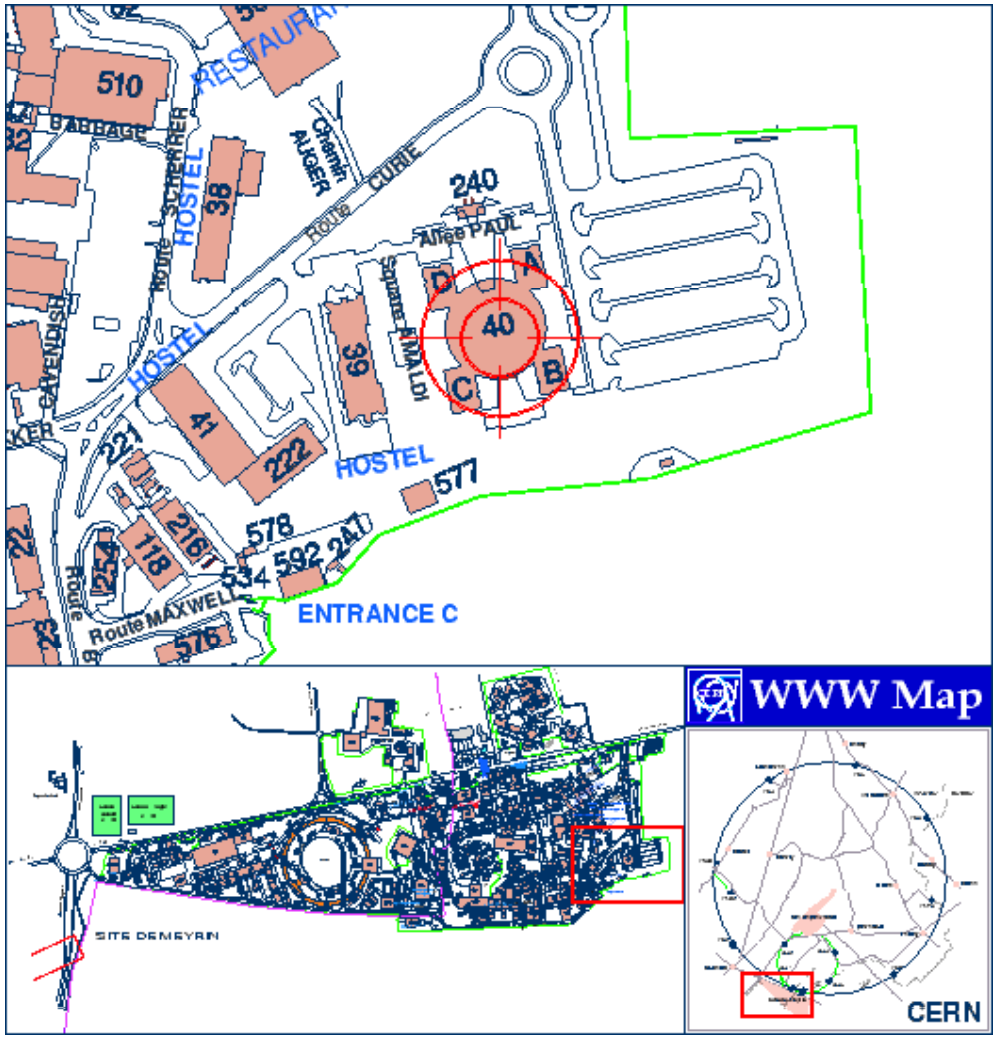


Room for Beam Dynamics Working group

Main room is
40-S2-C01

Most
sessions

But will start
in Councel
Chamber



Room 60-6-002

Thursday first afternoon session

With test facilities