GDE/RTML parallel sessions agenda

Tuesday, Oct.23 - Wednesday Oct.24, 2007

ALCPG 2007, FNAL

	Tuesday, Oct.23, 2007	Wednesday, Oct.24, 2007
08:30 - 09:00	Joint w Simulation (K.Kubo) – WH1E	Dumps, Collimator, stopper (T.Markiewicz)
09:00 - 09:30		Vacuum and
09:30 - 10:00		Cryogenic (T.Peterson) – WH9SE
10:00 - 10:30		Coffee
10:30 - 11:00	Magnet & PS (J.Tompkins) WH9SE	joint LLRF (S.Nagaitsev)
11:00 - 11:30		Instrumentation (RTML & MLI)
11:30 - 12:00		M.Wendt WH9SE
12:00 - 13:30	Lunch	Lunch
13:30 - 14:00	joint with CF&S and BDS (Tom Lackowski)	Instrumentation (BDS/ML/RTML)
14:00 - 14:30		M.Wendt - WH9SE
14:30 - 15:00	WH9SE or	EDR Planning – WH9SE
15:00 - 15:30	Coffee	Coffee
15:30 - 16:00	EDR Planning (N.Solyak) WH9SE	Beamline Lattice Formats (PT)
16:00 - 16:30		
16:30 - 17:00		

Tuesday morning, Oct.23, 2007

08:30-10:00 Joint with Acc. Physics Group (convener K.Kubo) location: WH1E

- 08:30 RTML lattice design and emittance preservation- (20') J.Smith or PT
- 08:50 Status and plans for RTML LET studies in Cornell (20') G.Dugan
- 09:10 RTML related EDR work packages in Acc. Phys. Group (15') K. Kubo
- 09:25 Dump Lines for the RTML (15') Peter Tenenbaum
- 09:40 Ultra-short Bunch compressor, status and plan (20') E. Kim (webex)
- Discussion of RTML / Acc. Phys work packages (20') (All)

10:30-12:00 Joint with Magnet Group (convener J.Tompkins) location: WH9SE

- RTML DC magnets V.Kashikhin (?)
- SC magnets status V.Kashikhin
- Pulsed magnets and PS
- Discussion of the magnet WP's All

Tuesday evening, Oct.23, 2007

13:30-15:00 Joint with CF&S and BDS (convener T.Lackowski) location: WH9SE

- Central station and DRX tunnels discussion T.Lackowski
- Power, water, air distribution in RTML -
- RTML tunnel status, issues and plans G. Aarons (?)
- Discussion of RTML / CF&S work packages All

15:30-17:00 Discuss overall approach to RTML WPs and EDR plans (convener N.Solyak) location: WH9SE

- RTML WPs (tentative) N.Solyak
- Discussion of RTML WPs
 - Lattice Engineering design
 - Beam Physics and Develop specifications WP's
 - Technical WP's

Wednesday morning, Oct.24, 2007

08:30-9:30 Dumps, Collimation, Vacuum – (conv.TM) location: WH9SE

- Dump, collimator, stoppers design status T. Markewicz
- Vacuum status and plans J. Noonan (TBD)
- Discussion of WP's

09:30-10:00 RTML Joint with Cryogenic Group – (TP) location: WH9SE

Discussion of RTML related PWs – T.Peterson

10:30-11:00 Joint with LLRF (convener N.Solyak)

- Proposal to measure RF stability at ILCTA/NML S.Nagaitsev
- Discussion of WP on R&D on phase stability in BC1/BC2

Wednesday evening, Oct.24, 2007

11:00-12:00 Joint RTML with Instrumentation (M. Wendt) location: WH3NW

 Discussion: RTML related work packages in Instrumentation Group

LUNCH

13:30-14:30 RTML/BDS/Instrumentation Group location: WH3NW)

- Discussion Instrumentation WP's for all areas

15:00 - Beam Line Lattice Format (30') - P.Tenenbaum
16:00->17:00 -Colloquium "What will the neighbors think? Building large-scale science projects around the world"

RTML work packages (Draft Oct.17, 2007)

- 1. Engineering Lattice design for EDR geometry
- 2. Specifications development (Components, Alignments, Etc.)
- 3. Accelerator Physics
 - Static Tuning study
 - Errors sensitivity study
 - Failure mode analysis
 - Specify, Study Magnetic stray fields
 - Study space-charge effects
 - Study of beam halo in the RTML
 - Dynamic tuning. Specify and develop feed-back system
 - Beam Loss and radiation load simulations
 - Design, Specify MPS
- 4. R&D on phase stability in BC1/BC2 (beam timing)
- 5. Alternative Ultra-short Bunch Compressor.
 - Lattice design
 - Control of emittance growths
 - Sensitivity studies on machine errors

RTML WP's (cont.)

- 6. Magnets and PS
 - Design, specify & optimize DC conventional magnets
 - Optimize number of types and apertures
 - Design warm quads, bends and correctors
 - Design and prototype BC wiggler wide aperture magnet
 - Design, prototype quad/corrector for return line
 - Design tune-up Septa and PS
 - Design and Specify pulsed magnets
 - Design tune-up extraction kickers and pulsers
 - Design feed-back, feed-forward correctors and PS
 - Design/prototype SC quad/corrector for BC1/BC2
 - Design, specify SC solenoid
 - Optimize PS and cabling
 - Design, specify DC PS
 - Design stable supports for magnets
- 7. Collimation system
 - Optics design
 - Theoretical and computer simulations of wakefields
 - Engineering design of the collimator

RTML WP's (cont.)

- Beam Dump system (5-15 GeV; 220kW)
 - Energy deposition and radiation shielding simulations
 - Engineering design of the dump
 - Design/costing handling system
- RTML Vacuum system
 - Layouts, pump valves, bellows locations
 - Engineering design of the vacuum system in return line
 - Impedance design of vacuum system
- RTML Instrumentation
 - Specify Instrumentation requirements, interfaces, locations
 - Specify warm BPM
 - Alignment system design
 - Design of feedbacks
- Specs for CF&S
 - Define tunnel configuration of arcs and turnaround
 - Define air, water, power requirements
 - Define equipment locations in service tunnel
 - Define specs for installation model
 - Define alignment system and stability requirements