RTML progress: update Jan.4,2009

- Lattice design
 - Single stage bunch compressor design and performance study in progress (MM configuration and possible alternative ILC design)
 - Re-designing diagnostic section and matching section
 - Redesign extraction line for the beam with 4% energy spread after single-stage BC
 - Minimum progress
- Design of coaxial coupling section for SC cavity in BC to reduce RF kick and wakefields from couplers
 - RF design is almost done. Multipactoring analysis and mechanical design in progress.
- Magnetic stray field measurements and analysis
 - New hardware for precise measurements received. Software upgrade and calibration tests are in progress. Measurements with klystron are planning for mid-Feb
- Cavity amplitude and phase stability studies for RTML bunch compressor at FLASH
 - Possible first studies during 9mA run in Sept.2009
 - Work on detailed proposal.
- Simulation Tools development
 - CHEF benchmarked vs. Lucretia (excellent agreement in all tests)
 - Coupler RF kick/wake implementation in Lucretia, Placet, CHEF