



# T4CM Engineering Workshop Agenda

## INFN, Pisa



Monday, 4 September, 2006	
10:00 am to 10:45 am	Arrival: INFN, Building C, Room 241
10:45 am to 11:00 am	Welcoming comments, Agenda - Franco Bedeshi (INFN,Pisa)
11:00 am to 11:30 am	Cryomodule design overview – Don Mitchell (FNAL)
11:30 am to 12:00 pm	Cryomodule supports (LHC Indian design)
12:00 pm to 1:30 pm	Pranzo
1:30 pm to 3:30 pm	Cavity / helium vessel / bladetuner design - Paolo Pierini (INFN, Milan) Bladetuner analysis (are the cavity-to-vessel connections strong enough?) Bladetuner material choice (can it be stainless steel?)
3:30 pm to 3:45 pm	Break
3:45 pm to 4:30 pm	Cavity-to-cavity interconnect bellows/flanges
4:30 pm to 6:00 pm	Cavity string design issues <ul style="list-style-type: none"> <li>• 2-phase pipe, design vs. reality</li> <li>• String extension pipe</li> <li>• HOM absorber</li> <li>• VAT Gate valves</li> </ul>
Tuesday, 5 September, 2006	
9:00 am to 10:15 am	Magnetic shielding: <ul style="list-style-type: none"> <li>• FNAL design (external)</li> <li>• KEK design (internal)</li> </ul>
10:15 am to 10:30 am	Break
10:30 am to 11:00 am	Cool down calculations on helium vessel, cavity, M.C., & coldmass (assign task)
11:00 am to 12:00 pm	Main Coupler design: <ul style="list-style-type: none"> <li>• Tolerances and alignment to vessel</li> <li>• XFEL design vs. traditional design</li> </ul>
12:00 pm to 1:30 pm	Pranzo
1:30 pm to 3:00 pm	Cryomodule interconnect redesign: <ul style="list-style-type: none"> <li>• minimize length</li> <li>• HOM absorber</li> </ul>
3:00 pm to 3:30 pm	Break
3:30 pm to 4:30 pm	MLI redesign - Pre-fabricated blankets. T5CM cost reduction or implement now?
4:30 pm to 6:00 pm	Heat shield design discussion– eliminate many of the fasteners, other ideas?

Wednesday, 6 September, 2006	
9:00 am to 10:15 am	Quad Magnet Package design (or lack of): <ul style="list-style-type: none"> <li>• FNAL design status</li> <li>• Mounting schemes and accessibility</li> <li>• Alignment requirements</li> <li>• Required ports, feed-thrus, electronics</li> </ul>
10:15 am to 10:30 am	Break
10:30 am to 11:00 am	Quad Magnet Package issues (continued)
11:00 am to 12:00 pm	Coldmass vibration study
12:00 pm to 1:30 pm	Pranzo
1:30 pm to end of day	INFN facility tour VIRGO gravitational wave experiment tour
Thursday, 7 September, 2006	
9:00 am to 9:30 am	Design codes and specifications
9:30 am to 10:00 am	Status of CAD model in DESY's EDMS – D. Mitchell (FNAL)
10:00 am to 10:30 am	The use of a Master coordinate system
10:30 am to 10:45 am	Break
10:45 am to 12:00 pm	CAD protocols: <ul style="list-style-type: none"> <li>• Modeling and drafting procedures (which software?)</li> <li>• Naming and numbering conventions, title blocks</li> <li>• Material properties, colors, etc.</li> </ul>
12:00 am to 1:30 pm	Pranzo
1:30 pm to 3:00 pm	<b>Presentation:</b> Collaborating within DESY's EDMS, L. Hagge (DESY) <b>Presentation:</b> VisView Overview
3:00 pm to 3:30 pm	Break
3:30 pm to 6:00 pm	Open CAD discussions (continued): to include EDMS revision control
Friday, 8 September, 2006	
9:00 am to 10:30 am	Coldmass support post redesign – T5CM cost reduction/stability – assign task Cryomodule shipping – brainstorm concepts and concerns Coldmass G10 posts: availability from INFN
10:30 am to 10:45 am	Break
10:45 am to 11:30 am	Re-cap topics and review the task assignments
11:30 am to 11:55 am	Open discussion on additional topics (if time permits)
11:55 am to 12:00 pm	<b>Closing Comments</b> – D. Mitchell, F. Bedeshi (next mtg., Jan '07, Milan)