

2011 Damping Rings TDP-II Schedule & Resources

ILC DR Technical Baseline Review Frascati, July 8, 2011

Mark Palmer
Cornell University

Top-Level Timeline as Reviewed at 2011 2012 F D F M M S 0 Ν M M S 0 J Α Lattice Development **Redefine Damping Ring Straights ALCPG11 Lattice Review Baseline Lattice Optimization** Freeze Baseline Lattice **Baseline Lattice Design Summary Baseline Lattice Preliminary Costing** CesrTA Phase I Report **Baseline Technical Review Baseline Documentation and Costing Baseline Lattice Physics Studies** Some work likely to continue Ongoing R&D Program **Electron Cloud Working Group Report** Final Recommendations from R&D Program **Update Baseline Technical Specifications**

Some push-back to move earlier

Incorporate Final Design Updates
Final Costing of Baseline Option
Technical Design Report Writing

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IIU	Baseline Lattice Studies/Development																		
Updated DR Timeline	Magnet System Specification																		
	Magnet System Costing																		
	Baseline Lattice Characterization																		
	Baseline Lattice Design Summary																		
	Baseline Lattice Preliminary Costing				_														
	CFS Specifications										***************************************	***************************************							
	Target Full Cost Update								\Q	•			·						
	Vacuum System Development											***************************************							
	Conceptual Design																		
	Vacuum System Costing							<	>										
	EC Working Group Studies																		
	DTC Characterization																		
	High Power Studies																		
	Studies with Updated EC/Photon Models																		
	Ongoing R&D Program																		
	CesrTA Phase I Report			(
	Electron Cloud Working Group Report																		
	Physics (nonEC) Studies/Estimates for Baseline																		
	Physics Characterization of Baseline Lattice																		
	Physics Studies Recommendations																		
	Final Recommendations from R&D Program																		
	Formal TDR Preparation																		
	Update Baseline Technical Specifications																		
	Incorporate Any Final Design Updates																		
	Final Costing of Baseline Option																		
July 8, 201	Technical Design Report Writing/Editing																		
	Complete Technical Design Report Contribution															<	>		



Resources

- Lattice Design Cornell (+IHEP)
- Layout Cornell
- RF Specifications Frascati
- Magnets & PS Cornell + SLAC(?)
- Instrumentation FNAL + ???
- Vacuum Cornell + KEKB(?) + Frascati + ???
 - Overall concept
 - EC Mitigation Implementation
- Physics Studies
 - EC: SLAC, Frascati, LBNL, CU, ANL, ...
 - FII: Guoxing Xia
 - Other: TBD
- CFS FNAL
- TDR Preparations (coord) Frascati + Cornell + ...