

Preliminary Program for the US-CERN Joint Topical Course
 "Frontiers of Particle Beams"

Time	Thursday, 10/23	Friday, 10/24	Saturday, 10/25	Sunday, 10/26	Monday, 10/27	Tuesday, 10/28	Wednesday, 10/29
B R E A K F A S T				F R E E D A Y O R E X C H I R S I O N	B R E A K F A S T		
0830	Opening Address	Numerical Tech- niques (Fields)	Numerical Techniques (Simulation)		High Gradient Fields	Synchrotron Radiation (I)	Linear Collider Optimization
0900	Introductory Talk B. Richter	T. Weiland	A. Wrulich		G. Loew	K. Hubner	U. Amaldi
C O F F E E B R E A K					C O F F E E B R E A K		
1020	Electromagnetic Fields	Phase Space Dynamics II	Space Charge Dominated Beams		rf Power	Synchrotron Radiation (II)	Fast Beam Damping
	R. Gluckstern	G. Guignard	I. Hofmann		V. Granatstein	K. Hubner	H. Wiedemann
1 0 M I N U T E B R E A K					1 0 M I N U T E B R E A K		
1130	Phase Space Dynamics (I)	Multiparticle Dynamics (II)	Instabilities (II)		Acceleration Mechanisms	Coherent Radiation (I)	Beam Breakup and Emittance Blowup
	G. Guignard	A. Chao	J. L. Laclare		J. Lawson	C. Kim	P. Wilson
1230 L U N C H A N D A F T E R N O O N B R E A K					L U N C H A N D A F T E R N O O N B R E A K		
1600	Multiparticle Dynamics (I)	Instabilities (I)	Beam Cooling		Intrabeam Scattering	Coherent Radiation (II)	Beamsstrahlung and Disruption
	A. Chao	J. L. Laclare	D. Mohl		A. Piwinski	C. Kim	Chen
1700 A F T E R N O O N T E A				A F T E R N O O N T E A			
1730	Advanced Ideas in Diagnostics	Ion Guiding in High Current Electron Beams	Advanced Cooling Techniques	Hadron Colliders: How Large Can They Be?	Technology and the Livingston Curve	Summary Talk -----C. Rubbia-----	
1900	A. Hofmann	R. Briggs	A. Skrinsky	J. D. Bjorken	K. Johnsen	(1830) Closing Address	
2000 E V E N I N G M E A L				E V E N I N G M E A L			