

Beam Dynamics and Technologies for Future Colliders, Zurich, 21 February – 6 March, 2018

Time	Wed. 21 Feb.	Thursday 22 February	Friday 23 February	Saturday 24 February	Sunday 25 February	Monday 26 February	Tuesday 27 February	Wed. 28 Feb	Thursday 1 March	Friday 2 March	Saturday 3 March	Sunday 4 March	Monday 5 March	Tues 6 March			
08:30	A R R I V A L D A Y	Opening Seminar	Detectors for High Energy Colliders/ Machine Detector Interface I	Recap. of Long. BD I	Collider Diagnostics/ Measurement of Critical Beam Parameters I	Beam-Beam Effects/ Beamstrahlung I	Instabilities in High-Energy Colliders and their Mitigation I	E X C U R S I O N	Superconducting RF Systems I	Normal Conducting & Permanent Magnets	Normal Conducting High Gradient RF Systems I	Interactions of Particles with Matter	Low Level RF Challenges/ Timing Systems II	D E P A R T U R E A F T E R B R E A K F A S T			
09:20		L. Linssen	F. Tecker	J. Wenninger	W. Herr	O. Boine-Frankenheim	E. Jensen		T. Zickler	W. Wuensch	N. Mokhov	A. Gallo					
09:30		High Energy Physics at Colliders	Recap. of Transverse BD I	Large Colliders Critical Technologies	Circular Hadron Collider Beam Dynamics I	Circular Lepton Collider Beam Dynamics/ Damping Rings I	Circular Lepton Collider Beam Dynamics/ Damping Rings II		High Energy Ion Colliders	Superconducting RF Systems III	Normal Conducting High Gradient RF Systems II	Low Level RF Challenges/ Timing Systems I	Kickers and Septa				
		M. Mangano	H. Schmickler	M. Jimenez	M. Syphers	K. Oide	K. Oide		J. Jowett	E. Jensen	W. Wuensch	A. Gallo	M. Paraliiev				
10:30		COFFEE	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE		COFFEE	COFFEE	COFFEE	COFFEE	COFFEE		COFFEE		
11:00		Luminosity Goals, Critical Parameters	Detectors for High Energy Colliders/ Machine Detector Interface II	Linear Collider Beam Dynamics III	Collider Diagnostics/ Measurement of Critical Beam Parameters II	Beam-Beam Effects/ Beamstrahlung II	Instabilities in High-Energy Colliders and their Mitigation II		Superconducting RF Systems II	Magnet Vibration and Feedbacks	RF Power Systems, CLIC Drive Beam	Machine Protection Concepts	Alignment & Metrology/ Requirements and Realisation				
11:50		B. Muratori	L. Linssen	D. Schulte	J. Wenninger	W. Herr	O. Boine-Frankenheim		E. Jensen	A. Seryi	S. Doebert	N. Mokhov	D. Missiaen				
12:00		Introduction to Muon Collider and Photon Collider	Recap. of Transverse BD II	Discussion Session I	Circular Hadron Collider Beam Dynamics II	Injection and Extraction	Discussion Session II		Large Colliders Civil Engineering and Siting	Emittance Preservation in Hadron Machines	Discussion III	Final Focus Layouts and Stability Considerations	Positron Production				
12:50		W. Chou	H. Schmickler	B. Holzer	M. Syphers	M. Aiba	B. Holzer		J. Osborne	H. Schmickler	B. Holzer	A. Seryi	M. Kuriki				
13:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		LUNCH		
14:30	Linear Collider Studies Overview	Linear Collider Beam Dynamics I	Case Studies Introduction	F R E E	Case Studies I	Case Studies II	Case Studies IV	Superconducting Magnets/Low Temperature Superconductors I	Case Studies VI	F R E E	Case Studies VIII	Reliability Engineering/ Availability of a Large Collider Complex					
15:20	S. Stapnes	D. Schulte	W.Herr B. Holzer D. Schulte			W.Herr B. Holzer D. Schulte	W.Herr B. Holzer D. Schulte	L. Bottura	W.Herr B. Holzer D. Schulte		W.Herr B. Holzer D. Schulte	M. Zerlauth					
15:30	Large Circular Colliders Overview (including h-e Options)	Lessons learnt from SLC	Case Studies I			Case Studies III	Case Studies V	Superconducting Material/Cables	Case Studies VII		F R E E	Case Studies IX	Case Studies Presentations I				
16:20	M. Benedikt	F. Zimmerman	W.Herr B. Holzer D. Schulte			W.Herr B. Holzer D. Schulte	W.Herr B. Holzer D. Schulte	C. Senatore	W.Herr B. Holzer D. Schulte			W.Herr B. Holzer D. Schulte	W.Herr B. Holzer D. Schulte				
16:30	COFFEE	COFFEE	COFFEE			COFFEE	COFFEE	COFFEE	COFFEE			COFFEE	COFFEE	COFFEE	COFFEE		
17:00	Lessons Learnt from LEP/LHC	Linear Collider Beam Dynamics II	Polarized Electron Beams/Energy Calibration			Seminar I	Vacuum Challenges	Superconducting Magnets/High Temperature Superconductors II	Advanced Future Collider Concepts			F R E E	Collimators, Dumps & Masks	Case Studies Presentations II			
17:50	M. Lamont	D. Schulte	J. Wenninger				R. Kersevan	L. Bottura	P. Muggli				M. Seidel	W.Herr B. Holzer D. Schulte			
18:00	Reception 18:15 Podium Discussions F. Gianotti/F. Bordry														Closing Talk		
19:30	Dinner	Dinner (20 h)	Dinner			Dinner	Dinner	Dinner	Dinner				Dinner	Dinner	Dinner	Special Dinner	Dinner

