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

Time	Wed. 21 Feb.	Thursday 22 Febuary	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		Opening Seminar	Detectors for High Energy Colliders/ Machine Detector Interface I	Recap. of Long. BD 1	Collider Diagnostics/ Measurement of Critical Beam Parameters I	Beam-Beam Effects/ Beamstrahlung I	Instabilities in High-Energy Colliders and their Mitigation I		Linear Collider Beam Dynamics I	Normal Conducting & Permanent Magnets	Normal Conducting High Gradient RF Systems I	Interaction of Particles with Matter/Machine Protection Concepts I	Low Level RF Challenges/ Timing System	
09:20			L. Linssen			W. Herr	O. Boine-Frankenheim		D.Schulte	T. Zickler	W. Wuensch	N. Mokhov		
09:30		High Energy Physics at Colliders	Recap. of Transverse BD I	Large Cryogenics Systems	Circular Hadron Collider Beam Dynamics I	Circular Lepton Collider Beam Dynamics/ Damping Rings I	Injection and Extraction		Superconducting RF Systems I	Supercon-ducting RF Systems III	Normal Conducting High Gradient RF Systems II	Magnet Vibration and Feedbacks	Kickers and Septa	
10:30	A R R I V A L D A Y	M. Mangano	H. Schmickler		M. Syphers	K. Oide	M. Aiba	E X C U R S I O N	E. Jensen	E. Jensen	W. Wuensch		M. Paraliev	D E P A R T U R E A F T E R B R E A K F A S T
		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	Recap of Long. BD II	Collider Diagnostics/ Measurement of Critical Beam Parameters II	Beam-Beam Effects/ Beamstrahlung II	Instabilities in High-Energy Colliders and their Mitigation II		Linear Collider Beam Dynamics II	Single Shot High Brilliance Beam Transport	RF Power Systems, CLIC Drive Beam	Interaction of Particles with Matter/Machine Protection Concepts II	Alignment & Metrology/ Requirements and Realisation	
11:50		B. Muratori	L. Linssen			W. Herr	O. Boine-Frankenheim		D. Schulte		S. Doebert	N. Mokhov	D. Missiaen	
12:00		Linear Collider Studies Overview	Recap. of Transverse BD II	Discussion Session I	Circular Hadron Collider Beam Dynamics II	Circular Lepton Collider Beam Dynamics/ Damping Rings II	Discussion Session II		Superconducting RF Systems II	Beams Production and Transport to Collider	Discussion III	Final Focus Layouts and Stability Considerations	Positron Production	
12:50		S. Stapnes	H. Schmickler		M. Syphers	K. Oide			E. Jensen				M. Kuriki	
13:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
14:30		Large Circular Colliders Overview (including h-e Options)	Lessons learnt from LHC	Case Studies Introduction	F R E E	Case Studies II	Case Studies IV		Superconducting Material/ Cables	Case Studies VI	F R E E	Case Studies VIII	Reliability Engineering/ Availability of a Large Collider Complex	
15:20			M. Lamont											
15:30		Other High Energy Collider Projects (muon-muon, gamma-gamma)	Lessons learnt from LEP	Case Studies I		Case Studies III	Case Studies V		Superconducting Magnets/Low Temperature Superconductors I	Case Studies VII		Case Studies IX	Case Studies Presentations I	
16:20									L. Bottura					
16:30		COFFEE	COFFEE	COFFEE		COFFEE	COFFEE		COFFEE	COFFEE		COFFEE	COFFEE	
17:00		The Big Picture of High Energy Physics	Large Colliders Technology Overview and Siting	Polarized Electron Beams/Energy Calibration		Seminar I	Vacuum Challenges		Superconducting Magnets/High Temperature Superconductors II	Advanced Future Collider Concepts		Collimators & Dumps & Masks	Case Studies Presentations II	
17:50									L. Bottura	P. Muggli		M. Seidel		
18:00		Extended Discussion											Closing Talk	
19:30	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	