

Review on machine protection and interlocks, 11 April 2005 – 13 April 2005

Monday

Closed session Room 40-R-B10

Getting to know the LHC - 40-R-B10

10:30		1	LHC Introduction	Roger Bailey	40
11:30		2	Introduction to magnet powering and protection	Reiner Denz	30
12:30	Lunch				
13:30			Executive session		

Open sessions Room 40-SS-C01

Introduction to Protection

14:00		3	Introduction to the review	Lyn Evans	10
14:15		4	Protection of the LHC	Rudiger Schmidt	30
15:00		5	The role of the collimation system in protecting the aperture	Ralph Assmann	20
15:30	Coffee				

Dumping the beam

16:00		6	Beam Dumping System - design and safety	Jan Uythoven	30
16:45		7	Beam Dumping system - failure scenarios	Brennan Goddard	20
17:15		8	Safe beam energy tracking	Etienne Carlier	20
17:45		9	Transverse damper	Wolfgang Hofle	15
18:15			Executive session Room 40-R-B10		

Tuesday

Interlocking

9:00		10	Interlocking strategy	Jorg Wenninger	20
9:30		11	LHC beam interlock system	Benjamin Todd	30
10:15		12	Safe LHC Parameters	Bruno Puccio	20
10:45	Coffee				

Events leading to beam losses

11:10		13	Failures in magnet and powering systems	Rudiger Schmidt	20
11:40		14	Objects that can move into the beam	Rossano Giachino	15
12:05		15	Fast kickers (tune and aperture)	Jan Uythoven	15

Equipment and beam monitoring - connected to the Beam Interlocks				
12:30	Lunch			
14:00		16	Beam losses versus BLM locations at the LHC	Stefano Redaelli 20
14:30		17	Beam loss monitoring requirements and system description	Bernd Dehning 25
15:05		18	Beam loss monitors - realisation	Christos Zamantzas 15
15:30	Coffee			
16:00		19	Magnet powering system and beam dump requests	Markus Zerlauth 20
16:30		20	Machine protection and closed orbit	Jorg Wenninger 20
17:00		21	BCT for protection	David Belohrad 20
Machine protection and operation				
17:30		22	Performance of injection protection systems	Verena Kain 20
18:00			Executive session Room 40-R-D10	
20:00 Review Dinner				
Wednesday				
9:00		23	Ensuring required collimator settings	Oliver Aberle 15
9:30		24	Machine protection and LHC controls	Mike Lamont 20
10:00		25	Will the machine protection systems let LHC safely operate?	Roberto Filippini 20
10:30	Coffee			
Closed session Room 40-4-C01				
Interactive session (closed session)				
11:00			Interactive session	
13:00	Lunch			
14:00			Executive session	
Open session Room 40-SS-C01				
Conclusions (open session)				
17:00			Conclusions and Recommendations	Mike Harrison 30