

CERN Portuguese Teachers Program (Aug. 30 - Sept. 4, 2009)

Hours	Saturday	Sunday, 30	Monday, 31	Tuesday, 1			Wednesday, 2	Thursday, 3	Friday, 4
09h00			Welcome and Introduction to CERN	Basics of Particle Detection			I. Particle Physics (Lesson 3/3)	Spin-offs from Particle Physics	Applied Physics with Accelerators (Isolde)
09h30			Intro. to Particle Physics (PP) (Lesson 1/3)	Intro. to Particle Physics (Lesson 2/3)		The case for LHC	Data Acquisition Systems	Controlling "Cool" Accelerators	
10h00									
10h30			COFFEE BREAK						
11h00			Particle Physics and the Universe	The ATLAS Detector and Portuguese participation		Questions and Answers Session	Questions and Answers Session	Particle Physics without Accelerators	
11h30									
12h00			LUNCH CERN (90 minutes)						
12h30									
14h00	Registration at CERN		Matter vs Antimatter: LHC-b Detector and Brazilian participation	Practice Session (3 groups/20p) @14h00:				The CMS Detector and Portuguese participation	Open Questions in Particle Physics and in the Universe
14h30	Introduction to the Program and Practicalities								
15h00	Travel Lisbon-Geneva: 1st Group (15h20-18h50)	Visit to ATLAS Visitor Centre and to SM18 (accelerator's technologies) (3 groups/20p)	Visit to LHC-b, to the DELPHI Detectors, and to the Microcosm (6 groups/12p)	Visit to the LINACs (1h15)	Computer Centre + Antimatter Deccelerator	Hands-on with a Cloud Chamber (1h15)	Treasure Hunt (Visit to Geneva)	Visit to CMS and to the CERN Control Centre (6 groups/12p)	Questionnaires and Evaluation of the Program
15h30				Visit to CC+AD (1h15)	Hands-on with a Cloud Chamber (1h15)	Visit to the LINACs (1h15)			
16h00				H.-on Cloud Chamber (1h15)	Visit to the LINACs (1h15)	CC+AD (1h15)			
16h30									
17h00									
17h30									
18h00									
18h30									
19h00									
19h30	Travel Lisbon-Geneva: 2nd Group (19h50-23h35)	DINNER CERN		BARBECUE .PT			DINNER GENEVA	DINNER CERN	Out to Lisbon Everybody (TAP)(19h35-21h05)