

ADVANCED ACCELERATOR PHYSICS COURSE – Greece 2011

Time	Monday 19 September	Tuesday 20 September	Wednesday 21 September	Thursday 22 September	Friday 23 September	Saturday 24 September	Sunday 25 September	Monday 26 September	Tuesday 27 September	Wednesday 28 September	Thursday 29 September	Friday 30 September	
09:00	Opening Talk	Recap. Transverse Dynamics II	New Tools for Non- Linear Dynamics I	New Tools for Non- Linear Dynamics II	Non-Linear Dynamics II	Low Emittance Machines III	E X C U R S I O N	Instabilities in Linacs	Beam-Beam Effects	Beam Cooling	Timing and Synchronisation	Departure after breakfast	
10:00		B. Holzer	W. Herr	W. Herr	O. Bruning	A. Wolski		M. Ferrario	W. Herr	M. Steck	F. Loehl		
10:00	Recap. Transverse Dynamics I	Introduction to Beam Diagnostics	Linear Accelerators	Linear Colliders	Sources of Emittance Growth (Hadrons)	Landau Damping I			Beam Instabilities I	Insertion Devices	High Brilliance Beam Diagnostics	Controls	
11:00	B. Holzer	H. Schmickler	M. Vretenar	F. Tecker	M. Giovannozzi	L. Palumbo			G. Rumolo	M. Tischer	A. Cianchi	H. Schmickler	
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11:30	Recap. Longitudinal Dynamics I	RF Cavity Design	RFQ	Non-Linear Dynamics I	Space Charge	Landau Damping II			Beam Instabilities II	FELs	High Field Magnets	Machine Protection & Collimation	
12:30	F. Tecker	E. Jensen	M. Vretenar	O. Bruning	M. Ferrario	L. Palumbo			G. Rumolo	S. Reiche	G. De Rijk	R. Schmidt	
12:30	Introduction to Beam Instrumentation	Insertions	GS1 Longitudinal Dynamics	T1 Longitudinal Dynamics	Low Emittance Machines I	T2 Transverse Dynamics			GS3 Non-Linear Dynamics	T3 Non-Linear Dynamics	GS4 Low Emittance Machines	T4 Low Emittance Machines	
13:30	R. Jones	B. Holzer			A. Wolski								
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15:00	Lattice Cells				Low Emittance Machines II								
16:00	B. Holzer	C1	C1	F	A. Wolski	C1			C1	C1	F	C1	
16:00	RF Basic Concepts	C2	C2	R	Feedback Systems I	C2		C2	C2	R	C2		
17:00	F. Caspers	C3	C3		H. Schmickler	C3		C3	C3		C3		
	T E A				T E A			T E A			T E A		
17:30	Recap. Longitudinal Dynamics II	C1	C1	E	Feedback Systems II	Poster Session		Seminar 1 Particle Beams for Fixed Target Experiments I. Efthymiopoulos	Seminar 2 Muon Colliders & Neutrino Factories K. Long	E	Overview of Future Accelerators		
18:30	F. Tecker	C2	C2	E	H. Schmickler					E	K. Peach		
18:30		C3	C3		GS2 Transverse Dynamics					18:30			
19:30	Welcome Drink									R. Heuer			
20:00										19:30 Aperitif 21:00 Special Dinner	DINNER		
	D I N N E R							D I N N E R					

Course 1 = “RF Measurements Techniques”

Course 2 = “Beam Instrumentation and Diagnostics”

Course 3 = “Optics Design and Corrections”