

Program for the 2018 CAS - Introduction to Accelerator Physics - Constanta

	Su,16.9.	Mo, 17.9	Tu, 18.9	We, 19.9	Th, 20.9.	Fr, 21.9	Sa,22.9	Su, 23.9	Mo, 24.9	Tu, 25.9	Me, 26.9	Th, 27.9	Fr, 28.9.	Sa, 29.9.				
08:30	Arrival day and registration	Opening Local/Schmickler	Transverse Linear Beam Dynamics I Hillert	Linear Accelerators I Alesini	Longitudinal Beam Dynamics in Circular Machines II Tecker	Luminosity and Colliders Herr	Collective Effects I Li	Excursion	Collective Effects III Li	Electron Beam Dynamics II Rivkin	Free	Sources Faircloth	Secondary beams and targets Knie	Bus transfer to Bukarest, ELL visit				
09:30																		
09:45		Accelerator Applications Sheehy	Transverse Linear Beam Dynamics II Hillert	Linear Accelerators II Alesini	Transverse Linear Beam Dynamics V Hillert	Injection and Extraction Fraser			Collective Effects II Li	Collective Effects IV Li		Discussion electron beam dynamics Rivkin			RF systems I Damerou	RF systems II Damerou		
10:45		Coffee								Coffee			Coffee					
11:15		Electromagnetic Theory I Herr	Particle motion in Hamiltonian Formalism I Sheehy	Transverse Linear Beam Dynamics III Hillert	Discussion transverse BD Hillert	FFA's Sheehy	Advanced accelerator concepts Ferrario			Discussion collective effects Li		Linear Imperfections III/Corrections Ziemann			Ion acceleration via ultra-intense laser Domenico	Machine & People Protection Issues Forck		
12:15		Lunch								Lunch								
13:45		Electromagnetic Theory II Herr	Particle motion in Hamiltonian Formalism II Sheehy	Transverse Linear Beam Dynamics IV Hillert		Kickers, Septa and Beam Transfer Fraser	Warm Magnets/power converters de Rijk			Linear Imperfections I Ziemann		A first taste of Non-Linear Beam Dynamics I Papaphilippou	A first taste of Non-Linear Beam Dynamics II Papaphilippou		Beam Instrumentation Forck	Introduction to Non-Linear longitudinal Beam Dynamics Damerou	late lunch at ELL	
14:45																		
15:00		Kinematics of Particle Beams - Relativity Ferrario	Hands-ON Lattice calculations - introduction Ziemann/Herr/Sterbin	Longitudinal Beam Dynamics in Circular Machines I Tecker		Discussion longitudinal BD Tecker/Alesini	Superconducting Magnets de Rijk			Linear Imperfections II /Corrections Ziemann		Cyclotrons I Seidel	Synchrotron light machines & FELs Diaconescu		Beam Diagnostics Forck	Q&A/study time V all		
16:00		Coffee								Coffee								
16:30		Statistical Description of Particle Beams Ferrario	Hands-ON Lattice calculations I Ziemann/Herr/Sterbin	Hands-ON Lattice calculations II Ziemann/Herr/Sterbin		Hands-ON Lattice calculations IV Ziemann/Herr/Sterbin	Hands-ON Lattice calculations VI Ziemann/Herr/Sterbin			Electron Beam Dynamics I Rivkin		Cyclotrons II Seidel	Designing a synchrotron - a real life example Papaphilippou		Q&A/study time IV all	closing Schmickler		
17:30		1 slide 1 minute all		Hands-ON Lattice calculations III Ziemann/Herr/Sterbin		Hands-ON Lattice calculations V Ziemann/Herr/Sterbin	Posters all			Q&A/study time I all		Q&A/study time II all	Q&A/study time III all		A critical view on cultural heritage conservation by ionizing radiation - need, option, adherence and reluctance Corneliu Ponta			
18:30		Welcome Reception																
19:30		Dinner at Hotel													Banquet			
21:00		poster preparation								cinema event								