

Program for the 2024 CAS - Introduction to Accelerator Physics																
	Sun 22/09	Mon 23/09	Tue 24/09	Wed 25/09	Thu 26/09	Fri 27/09	Sat 28/09	Sun 29/09	Mon 30/09	Tue 01/10	Wed 02/10	Thu 03/10	Fri 04/10	Sat 05/10		
08:30	Arrival day and registration	Opening / ALBA presentation Tecker et al.	Transverse Linear Beam Dynamics II Hillert	Transverse Linear Beam Dynamics III Hillert	ALBA visit	Linear Imperfections - corrections Ziemann	Electron Beam Dynamics II Rivkin		Cyclotrons Seidel	Beam Diagnostics I Forck		Time and Frequency domain signals I Schwickler	Synchrotron light circular machines & FELs I Prat		Departure day	
09:30						Longitudinal BD in Circular Machines II Tecker	Collective Effects III Li		RF systems I Völlinger	Introduction to Non-Linear longitudinal Beam Dynamics Damerau		A first taste of Non-Linear Beam Dynamics I Bartosik	Synchrotron light circular machines & FELs II Prat			
09:35		Electromagnetic Theory Shreyber	Warm Magnets de Rijk	Linear Accelerators I Alesini		Coffee	Coffee			Coffee		Coffee	Coffee			
10:35						Collective Effects I Li	Injection and Extraction Arrutia		Sustainability for Accelerators Seidel	Beam Diagnostics II Forck		Time and Frequency domain signals II Schwickler	Particle motion in Hamiltonian Formalism II Papaphilippou			
11:05		History of particle acceleration Sheehy	Sources Faircloth	Transverse Linear Beam Dynamics IV Hillert		Lunch	Electron Beam Dynamics I Rivkin	Collective Effects IV Li	RF systems II Völlinger	Advanced accelerator concepts I Ferrario	Lunch	A first taste of Non-Linear Beam Dynamics II Bartosik	Designing a synchrotron - a real life example Papaphilippou			
12:05		Kinematics of Particle Beams - Relativity Shreyber	Secondary beams and targets Faircloth	Linear Accelerators II Alesini		Lunch	Lunch	Lunch		Lunch	Computational tools I Latina	Lunch	Lunch			
12:10						Transverse Linear Beam Dynamics VI Hillert	Lunch	Lunch								
13:10			Lunch													
13:45																
14:45		Transverse Linear Beam Dynamics I Hillert	Superconducting Magnets de Rijk	Transverse Linear Beam Dynamics V Hillert	Linear Imperfections I Ziemann	Collective Effects II Li	Vacuum Seidel		Hands-ON calculations (longitudinal) - Intro Damerau et al.	Hands-ON calculations (longitudinal) - III Damerau et al.	Advanced accelerator concepts II Ferrario	Particle motion in Hamiltonian Formalism I Papaphilippou	Putting it all together Schwickler			
14:50						Coffee						Coffee				
15:50		Accelerator Applications Sheehy	Hands-ON Lattice calulations I Gamba et al.	Hands-ON Lattice calulations III Gamba et al.	Longitudinal BD in Circular Machines I Tecker	Hands-ON Lattice calulations V Gamba et al.	Discussion session		Hands-ON calculations (longitudinal) - I Damerau et al.	Hands-ON calculations (longitudinal) - IV Damerau et al.	Computational tools II Latina	Discussion session	Closing			
16:20																
17:20		1 slide 1 minute	Hands-ON Lattice calulations II Gamba et al.	Hands-ON Lattice calulations IV Gamba et al.	Linear Imperfections II Ziemann	Hands-ON Lattice calulations VI Gamba et al.	Study time all		Hands-ON calculations (longitudinal) - II Damerau et al.	Hands-ON calculations (longitudinal) - V Damerau et al.	Colliders and luminosity Schwickler	Study time all				
17:25																
18:25		Welcome reception	Poster session		Discussion session	** Seminar **										
18:45																
19:25																
19:45																
20:15						Dinner at Hotel								Banquet		
21:00														Cinema event	Show	