

Program for the 2019 CAS - Introduction to Accelerator Physics - High Tatras

	Sun 8.9	Mon 9.9	Tue 10.9	Wed 11.9	Thu 12.9	Fri 13.9	Sat 14.9	Sun 15.9	Mon 16.9	Tue 17.9	Wed 18.9	Thu 19.9	Fri 20.9	Sat 21.9			
8:30	Arrival day and registration	Opening local/Schmickler	Transverse Linear Beam Dynamics I Hillert	Longitudinal BD in Circular Machines II Tecker	Superconducting Magnets de Rijk	Free	Collective Effects I Li	Excursion	Collective Effects III Li	Electron Beam Dynamics I Rivkin	Free	Machine & People Protection Issues Forck	Vacuum Seidel	Departure day			
9:30																	
9:45		Electromagnetic Theory I Herr	Transverse Linear Beam Dynamics II Hillert	Transverse Linear Beam Dynamics III Hillert	Transverse Linear Beam Dynamics V Hillert		Collective Effects II Li		Collective Effects IV Li	Electron Beam Dynamics II Rivkin		Cyclotrons I Seidel	A first taste of Non-Linear Beam Dynamics II Papaphilippou				
10:45		Coffee							Coffee	Coffee		Coffee					
11:15		History of particle acceleration Lebrun	Particle motion in Hamiltonian Formalism I Sheehy	Warm Magnets / power converters de Rijk	Time and Frequency domain signals I Schmickler		Sources Faircloth		Discussion collective effects Li	Discussion electron beam dynamics Rivkin		A first taste of Non-Linear Beam Dynamics I Papaphilippou	Synchrotron light circular machines Prat				
12:15		Lunch							Lunch								
13:45		Electromagnetic Theory II Herr	Particle motion in Hamiltonian Formalism II Sheehy	Transverse Linear Beam Dynamics IV Hillert	Time and Frequency domain signals II Schmickler		Linear Imperfections I Ziemann		Linear Imperfections - corrections Ziemann	RF systems I Damerou		RF systems II Damerou	Luminosity and Colliders Schmickler		Cyclotrons II/FFAs Seidel	FELs Prat	
14:45																	
15:00		Accelerator Applications Sheehy	Linear Accelerators I Alesini	Injection and Extraction Tecker	Statistical Description of Particle Beams Ferrario		Linear Imperfections II Ziemann		Secondary beams and targets Faircloth	Hands-ON calculations (longitudinal) - Intro Damerou et al.		Introduction to Non-Linear longitudinal Beam Dynamics Damerou	Beam Instrumentation Forck		Beam Diagnostics Forck	Designing a synchrotron - a real life example Papaphilippou	
16:00		Coffee							Coffee								
16:30	Kinematics of Particle Beams - Relativity Herr	Longitudinal BD in Circular Machines I Tecker	Hands-ON Lattice calculations - introduction Ziemann et al.	Advanced accelerator concepts Ferrario	Hands-ON Lattice calculations III Ziemann et al.	Hands-ON Lattice calculations V Ziemann et al.	Hands-ON calculations (longitudinal) - I Damerou et al.	Hands-ON calculations (longitudinal) - III Damerou et al.	Q&A/study time I all	Q&A/study time II all	Closing Schmickler						
17:30	1 slide 1 minute	Linear Accelerators II Alesini	Hands-ON Lattice calculations I Ziemann et al.	Discussion session	Hands-ON Lattice calculations IV Ziemann et al.	Hands-ON Lattice calculations VI Ziemann et al.	Hands-ON calculations (longitudinal) - II Damerou et al.	Hands-ON calculations (longitudinal) - IV Damerou et al.	Poster session	** Seminar ** tbd							
18:30	Welcome reception		Hands-ON Lattice calculations II Ziemann et al.														
19:30	Dinner at Hotel											Banquet					
21:00										Cinema event							