

Programme for the 2021 CAS - Introduction to Accelerator Physics - Kaunas(LT)

	Sun 5.9	Mon 6.9	Tue 7.9	Wed 8.9	Thu 9.9	Fri 10.9	Sat 11.9	Sun 12.9	Mon 13.9	Tue 14.9	Wed 15.9	Thu 16.9	Fri 17.9	Sat 18.9		
8:30		Opening	Transverse Linear Beam Dynamics I	Longitudinal BD in Circular Machines II	Superconducting Magnets	Free	Collective Effects I	Excursion	Collective Effects III	Electron Beam Dynamics I	Free	Machine & People Protection Issues	Injection and Extraction	Departure day		
9:30							Collective Effects II		Collective Effects IV	Electron Beam Dynamics II		A first taste of Non-Linear Beam Dynamics I	Particle motion in Hamiltonian Formalism II			
9:45		Electromagnetic Theory I	Transverse Linear Beam Dynamics II	Transverse Linear Beam Dynamics III	Transverse Linear Beam Dynamics V		Coffee		Coffee	Coffee		Coffee				
10:45		Coffee					Coffee		Coffee							
11:15		History of particle acceleration	Cyclotrons I	Warm Magnets / power converters	Time and Frequency domain signals I				Sources	Discussion collective effects		Discussion electron beam dynamics			Particle motion in Hamiltonian Formalism I	Synchrotron light circular machines
12:15		Lunch					Lunch									
13:45	Arrival day and registration	Electromagnetic Theory II	Cyclotrons II/FFAs	Transverse Linear Beam Dynamics IV	Time and Frequency domain signals II		Linear Imperfections I		Linear Imperfections - corrections	RF systems I		RF systems II	Luminosity and Colliders		A first taste of Non-Linear Beam Dynamics II	FELs
14:45																
15:00		Accelerator Applications	Linear Accelerators I	Vacuum	Advanced accelerator concepts I		Linear Imperfections II		Secondary beams and targets	Hands-ON calculations (longitudinal) - Intro		Introduction to Non-Linear longitudinal Beam Dynamics	Beam Instrumentation		Beam Diagnostics	Designing a synchrotron - a real life example
16:00		Coffee					Coffee									
16:30		Kinematics of Particle Beams - Relativity	Longitudinal BD in Circular Machines I	Computational tools I	Computational tools II	Hands-ON Lattice calculations III	Hands-ON Lattice calculations V	Hands-ON calculations (longitudinal) - I	Hands-ON calculations (longitudinal) - III	Q&A/study time I	Q&A/study time II	Closing				
17:30		1 slide 1 minute	Linear Accelerators II	Hands-ON Lattice calculations I	Advanced accelerator concepts II	Hands-ON Lattice calculations IV	Hands-ON Lattice calculations VI	Hands-ON calculations (longitudinal) - II	Hands-ON calculations (longitudinal) - IV	Q&A/study time I	Q&A/study time II					
18:30		Welcome reception		Hands-ON Lattice calculations II	Discussion session					Poster session	** Seminar ** tbd					
19:30		Dinner at Hotel											Banquet			
21:00									Cinema event							