

Program for the 2022 CAS - Advanced Accelerator Physics -

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
	06/11	07/11	08/11	09/11	10/11	11/11	12/11	13/11	14/11	15/11	16/11	17/11	18/11			
08:30	Arrival day and registration	Opening	Lattice Cells	Recap Longitudinal Beam Dynamics I	Instabilities in Linacs	Wakefields and Impedances	Beam Instabilities - Transverse	Excursion	Optics calculations	Landau Damping I	Free	HL-LHC I	Departure day			
		Tecker	Sterbini	Tecker	Ferrario	Rumolo	Li		Sterbini	Buffat		Zerlauth				
09:30		Recap Transverse Beam Dynamics I	Accelerator issues overview	Space charge in linear machines	Collimation	Recap Synchrotron Radiation	Insertion devices - Radiation		ERL I	Non Linear Dynamics - Methods and Tools		HL-LHC II				
		Schmickler	Tecker	Ferrario	Redaelli	Wolski	Clarke		Arnold	Papaphilippou		Brüning				
10:30		Coffee							Coffee							
11:00		Intro to RF measurement techniques I	Intro to RF measurement techniques II	Recap Longitudinal Beam Dynamics II	Overview of Wakefield Acceleration	Beam Instabilities - Longitudinal	Electron Cloud and instabilities		FEL I	Muon Colliders I		Non Linear Dynamics - Phenomenology II				
		Wendt	Wendt	Tecker	Ferrario	Rumolo	Li		Hillert	Rogers		Papaphilippou				
12:00		Intro to Beam Instrumentation and Diagnostics I	Intro to Beam Instrumentation and Diagnostics II	Space charge in circular machines	Collimation + technical implementation	Low emittance lattices	Discussion on Instabilities		ERL II	Landau Damping II		Discussion on Non Linear Dynamics				
		Jones	Jones	Ferrario	Redaelli	Wolski	Rumolo/Li		Arnold	Buffat		Papaphilippou				
13:00		Lunch														
14:30		Recap Transverse Beam Dynamics II	Insertions & Dispersion Suppressors	Beam loading	Free	RF Feedbacks	Insertion devices - Technology		FEL II	Muon Colliders II		Non Linear Dynamics Methods and Tools II		Longitudinal beam diagnostics		
		Schmickler	Sterbini	Damerau		Damerau	Clarke		Hillert	Rogers		Papaphilippou		Lefevre		
15:30		Intro to Optics Design	C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		C1/C2/C3		Beam-Beam effects	RF show	
		Sterbini												Buffat		
16:30	Coffee						Coffee									
17:00	151M	C1/C2/C3	C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	Non Linear Dynamics Phenomenology I	Closing				
18:00											Papaphilippou	Tecker				
18:30	Welcome Drink										High Brightness Beam Diagnostics					
19:00			18:30 Seminar							Lefevre						
19:30	Dinner									21:00 Cinema evening						