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	Non Linear Dynamics - Methods and Tools II	HL-LHC I	Departure day
		Tecker	Sterbini	Tecker	Ferrario	Rumolo	Li		Sterbini	Buffat	Papaphilippou	Zerlauth	
09:30		Recap Tranvsverse 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 I	Beam-Beam effects	HL-LHC II	
		Schmickler	Tecker	Ferrario	Redaelli	Wolski	Clarke		Arnold	Papaphilippou	Buffat	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 I	Non Linear Dynamics - Phenomenology II	
		Wendt	Wendt	Tecker	Ferrario	Rumolo	Li		Hillert	Rogers	Papaphilippou	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	High Brightness Beam Diagnostics	Discussion on Non Linear Dynamics	
		Jones	Jones	Ferrario	Redaelli	Wolski	Rumolo/Li		Arnold	Buffat	Lefevre	Papaphilippou	
13:00		Lunch							Lunch				
14:30		Recap Tranvsverse Beam Dynamics II	Insertions & Dispersion Suppressors	Beam loading	Free	RF Feedbacks	Insertion devices - Technology		FEL II	Muon Colliders II	Free	Longitudinal beam diagnostics	
		Schmickler	Sterbini	Damerau		Damerau	Clarke		Hillert	Rogers		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		RF show	
		Sterbini											
16:30		Coffee				Coffee			Coffee			Coffee	
17:00		1S1M	C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		Closing	
												Tecker	
18:30													
19:00										Seminar			
19:30		Dinner											