Program for the 2024 CAS - Advanced Accelerator Physics

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	10/11	11/11	12/11	13/11	14/11	15/11	16/11	17/11	18/11	19/11	20/11	21/11	22/11
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
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 I	Beam-Beam effects	HL-LHC II	
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	
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	
13:00		Lunch							Lunch				
14:30		Recap Transverse Beam Dynamics II	Insertions & Dispersion Suppressors	Beam loading	Free	RF Feedbacks	Insertion devices - Technology		FEL II	Muon Colliders II	Free	Longitudinal beam diagnostics	
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	
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	
		Welcome Drink											
18:30													
19:00				Seminar									
										21:00 Cinema evening			
19:30		Dinner										Gala Dinner	

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