

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	Space charge in linear machines	Beam Instabilities - Transverse	Beam loading	Excursion	Optics calculations	Landau Damping I	Free	Non Linear Dynamics - Phenomenology I	Departure day								
		Tecker	Sterbini	Tecker	Ferrario	Li	Damerau		Sterbini	Buffat		Papaphilippou									
09:30		Recap Transverse Beam Dynamics I	Accelerator issues overview	RF Manipulations I	Wakefields and Impedances	Instabilities in Linacs	Recap Synchrotron Radiation		High Brightness Beam Diagnostics	Muon Colliders I		Collimation									
		Schmickler	Tecker	Timko	Rumolo	Ferrario	Martin		Bobb	Rogers		Redaelli									
10:30		Coffee							Coffee			Coffee									
11:00		Intro to RF measurement techniques I	Intro to RF measurement techniques II	Recap Longitudinal Beam Dynamics II	Space charge in circular machines	Electron Cloud and instabilities	Insertion devices - Radiation		FEL I	Landau Damping II		Non Linear Dynamics - Phenomenology II									
		Wendt	Wendt	Tecker	Ferrario	Li	Clarke		Hillert	Buffat		Papaphilippou									
12:00		Intro to Beam Instrumentation and Diagnostics I	Intro to Beam Instrumentation and Diagnostics II	RF Manipulations II	Beam Instabilities - Longitudinal	Discussion on Instabilities	Low emittance lattices		Longitudinal beam diagnostics	Muon Colliders II		Discussion on Non Linear Dynamics									
		tbc	tbc	Timko	Rumolo	Rumolo/Li	Martin		Bobb	Rogers		Papaphilippou									
13:00		Lunch							Lunch												
14:30		Recap Transverse Beam Dynamics II	Insertions & Dispersion Suppressors	RF Feedbacks	Free	Overview of Wakefield Acceleration	Insertion devices - Technology		FEL II	ERL		Non Linear Dynamics - Methods and Tools I		Collimation + technical implementation							
		Schmickler	Sterbini	Damerau		Ferrario	Clarke		Hillert	Arnold		Papaphilippou		Redaelli							
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	Free		C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3	Non Linear Dynamics - Methods and Tools II	Closing							
18:00																				Papaphilippou	Tecker
18:30	Welcome Drink																				
19:00			18:30 Seminar											Zerlauth							
19:30	Dinner									21:00 Cinema evening	Gala Dinner										