

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			
09:30		Recap Transverse Beam Dynamics I	Accelerator issues overview	Space charge in linear machines	RF Feedbacks	Recap Synchrotron Radiation	Insertion devices - Radiation			Collimation	Non Linear Dynamics - Methods and Tools	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	ERL I	Low emittance lattices	Discussion on Instabilities			Collimation + technical implementation	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		ERL II	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			C1/C2/C3	C1/C2/C3	RF show		
16:30	Coffee					Coffee			Coffee			Coffee				
17:00	151M	C1/C2/C3	C1/C2/C3			C1/C2/C3	C1/C2/C3	C1/C2/C3	C1/C2/C3			Closing				
18:30																
19:00									Seminar							
19:30							Dinner									