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	Beam loading	Wakefields and Impedances	Beam Instabilities - Transverse	Excursion	Optics calculations	Landau Damping I	Non Linear Dynamics - Methods and Tools II	Muon Colliders I	Departure day
09:30		Recap Tranvsverse Beam Dynamics I	Accelerator issues overview	Instabilities in Linacs	Space charge in linear machines	Recap Synchrotron Radiation	Insertion devices - Radiation		Collimation	Non Linear Dynamics - Methods and Tools I	Beam-Beam effects	Longitudinal beam diagnostics	
10:30		Coffee							Coffee				
11:00		Intro to RF measurement techniques I	Intro to RF measurement techniques II	Recap Longitudinal Beam Dynamics II	RF Feedbacks	Beam Instabilities - Longitudinal	Electron Cloud and instabilities		FEL I	HL-LHC 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	Overview of Wakefield Acceleration	Space charge in circular machines	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 Tranvsverse Beam Dynamics II	Insertions & Dispersion Suppressors		Free	ERL basics	Insertion devices - Technology		FEL II	HL-LHC II	Free	Muon Colliders II	
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	
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	
			C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		Schmickler	
18:30			C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3		C1/C2/C3	C1/C2/C3			
19:30		Dinner											

DRAFT