

Programme for the 2019 CAS - Advanced Accelerator Physics - Metaskolen, Denmark

	9	10	11	12	13	14	15	16	17	18	19	20	21			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
08:30		Opening	Lattice Cells	Recap Longitudinal Beam Dynamics I	Beam loading	Wakefields and Impedances	Beam Instabilities - Transverse		Beam cooling	Landau Damping I	Truncated Power Series Algebra II	Beam-Beam effects				
		Schmickler	Sterbini	Tecker	Damerau	Rumolo	Li		Steck	Kornilov	Forest	Bai				
09:30		Recap Transverse Beam Dynamics I	Intro to RF measurement techniques II	Space charge in linear machines	Instabilities in Linacs	Low emittance lattices I	Timing and synchronisation		Optics calculations	Stochastic cooling	Polarisation	Longitudinal beam diagnostics				
		Schmickler	Wendt	Ferrario	Ferrario	Wolski	Schmickler		Sterbini	Steck	Bai	Lefevre				
10:30		Coffee							Coffee							
11:00		Intro to RF measurement techniques I	Intro to Beam Instrumentation and Diagnostics II	Recap Longitudinal Beam Dynamics II	RF Feedbacks	Beam Instabilities - Longitudinal	Electron Cloud and instabilities		Non Linear Dynamics - Methods and Tools I	Landau Damping II	Non Linear Dynamics - Phenomenology I	Non Linear Dynamics - Phenomenology II				
		Wendt	Jones	Tecker	Damerau	Rumolo	Li		Papaphilippou	Kornilov	Papaphilippou	Papaphilippou				
12:00		Intro to Beam Instrumentation and Diagnostics I	Insertions & Dispersion Suppressors	Space charge in circular machines	Overview of Wakefield Acceleration	Low emittance lattices II	Discussion on Instabilities		Truncated Power Series Algebra I	Non Linear Dynamics - Methods and Tools II	High Brightness Beam Diagnostics	Discussion on Non Linear Dynamics				
		Jones	Sterbini	Ferrario	Ferrario	Wolski	Rumolo/Li		Forest	Papaphilippou	Lefevre	Papaphilippou/Forest				
13:00		Lunch							Lunch							
14:30		Recap Transverse Beam Dynamics II	C1	C1	Free	C1	C1		C1	C1	Free	C1				
		Schmickler	C2	C2		C2	C2		C2	C2		C2	C2			
15:30		Intro to Optics Design	C3	C3		C3	C3		C3	C3		C3	C3			
		Sterbini														
16:30		Coffee							Coffee							
17:00		1S1M	C1	C1		C1	C1		C1	C1		C1	C1	Closing		
			C2	C2	C2	C2		C2	C2	C2	C2	Schmickler				
			C3	C3	C3	C3		C3	C3	C3	C3					
18:30					News from Ongoing and Planned Exploration of Mars					Deep Greenland Ice Core tells tales on the past climate						
					Morten Bo Madsen					Dorthe Dahl-Jensen						
19:30		Dinner														

Arrival day and registration

Excursion

Departure day