

Programme for CAS course “Numerical Methods for Analysis, Design and Modelling of Particle Accelerators”

11-23 November 2018, Thessaloniki, Greece

	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov		
08:30		Opening, introduction to afternoon courses	Monte Carlo Simulation Techniques	Truncated Power Series Algebra I (TPSA)	Dynamical Systems, Representation of Particle Beams	Machine Learning I	Partial differential equations II	Excursion	Reserve/Poster Session	Field Solvers I	Field Solvers III	Analysis Techniques II	Departure day		
		Schmickler	Qiang	Forest	Chao	Ratner	Russenschuck		Schmickler	de Gersem	de Gersem	Papaphilippou			
09:30		Linear Algebra I	Genetic Optimisation I	Imperfections and corrections I	Partial differential equations I	Multi Particle Simulation Techniques II	Machine learning II		Reserve/Poster Session	Simulation of Interaction with material I	Field Solvers IV	Direct Vlasov Solvers II			
		Adelmann	Adelmann	Tomas	Russenschuck	Qiang	Ratner		Schmickler	Mokhov	de Geerse	Mounet			
10:30		Coffee							Coffee						
11:00		Numerical computing	Nonlinear Beam Dynamics	Truncated Power Series Algebra II (TPSA)	Imperfections and corrections II	Analysis Techniques I	Study time and discussion		Computing Techniques I	Field Solvers II	Block C-4	Comparison of various codes for interaction with material			
		Herr	Herr	Forest	Tomas	Papaphilippou	Schmickler		Buffat	de Gersem	Russenschuck	Mokhov			
12:00		Linear Optics calculations I	Genetic Optimisation II	Hamiltonian Dynamics	Multi Particle Simulation Techniques I	TPSA III	Study time and discussion		Computing Techniques II	Simulation of Interaction with Material II	Block C-5	Discussion and closing			
		Sterbini	Adelmann	Herr	Qiang	Forest	Schmickler		Buffat	Mokhov	Russenschuck	Schmickler			
13:00		Lunch							Lunch						
14:30	Hotel arrival	Linear Algebra II	Computer setup	Block A-4	Free	Block B-1	Block B-4		Partial differential equation III	Block C-1	Direct Vlasov Solvers I	Free			
		Adelmann	Herr	Forest		Qiang	Qiang		Russenschuck	de Gersem	Mounet				
15:30		Ordinary differential equations	Block A-1	Block A 5		Block B-2	Block B-5	Free	Block C-2	Discussion					
	Adelmann	Sterbini	Forest	Qiang		Qiang	de Gersem		Coffee	Coffee					
16:30	Coffee						Coffee								
17:00	CAS Registration	Linear Optics calculations II	Block A-2	Block A-6		Block B-3	Block B-6	Block C-3	Seminar II: From Newtonian Cosmology to Strings						
		Sterbini	Sterbini	Forest	Qiang	Qiang	de Gersem	G. Lazaridis							
18:00		OneS-OneM	Block A-3	Seminar I											
		All	Sterbini												
19:00															
19:30		Dinner						social event	Dinner				gala dinner		