









Spring School on Theory and Applications of Port-Hamiltonian Systems (PHS 2025)

23 - 28 March 2025, Frauenchiemsee, Bavaria

Program

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	23 March	24 March	25 March	26 March	27 March	28 March
Morning I 9:00-10:30		BayFrance, DFH- UFA, Doctoral College PHS (A. Honsdorf, P. Kotyczka, B. Maschke)	Lecture 4 Modeling of infinite- dimensional PHS	Minicourse 1 Introduction to mathematical optimization and optimal control (M. Schaller, C. Totzek)	Minicourse 3 Optimal control of PHS (M. Schaller, C. Totzek)	Advanced Topic 6 Thermodynamics and PHS (B. Maschke, Y. Le
		Lecture 1 Introduction to PHS (B. Maschke)	(Y. Le Gorrec)			Gorrec, H. Ramirez)
Coffee		Coffee	Coffee	Coffee	Coffee	Coffee
Morning II 11:00-12:00		Lecture 2 Structure and properties of PHS (A. van der Schaft)	Lecture 5 Analysis of infinite- dimensional PHS (B. Jacob, H. Zwart)	Minicourse 2 Introduction to mathematical optimization and optimal control (M. Schaller, C. Totzek)	Minicourse 4 Optimal control of PHS (M. Schaller, C. Totzek)	Application Talk 2 Energy-based simulation in musical acoustics (T. Hélie) Closing and Farewell (B. Maschke, P. Kotyczka)
		Lunch	Lunch	Lunch	Lunch	Lunch
Afternoon I 14:00-16:00 (Tuesday: 14:00-15:30)	Check-in and welcome	PhD students' poster session	Lecture 6 Control of infinite-dimensional PHS (Y. Le Gorrec, A. Macchelli) Advanced Topic 2 Spatial discretization of PHS (D. Matignon, L. Lefèvre)	13:30 Boat departure	Interactive Session (outdoor if possible)	13:30 Boat departure for bus transfer
	Coffee	Coffee	Coffee (15:30-16:00)	Excursion to	Coffee	
Afternoon II 16:30-18:00 (Tuesday: 16:00-17:30)	First meeting (P. Kotyczka, A. Honsdorf, B. Maschke)	Lecture 3 Control of finite-dimensional PHS (P. Borja) Advanced Topic 1 Discrete-time PHS and control (A.Macchelli, P. Kotyczka)	Advanced Topic 3 Port-based models of nonlinear mechanical systems (P. Kotyczka) Advanced Topic 4 Energy-based Control in Robotics (S. Stramigioli)	Herrenchiemsee	Advanced Topic 5 Graphs and Networks (M. Cuccuzzela) Application Talk 1 t.b.d.	
		Dinner	Dinner	Dinner	Dinner	
Evening 20:00-	Welcome dinner and welcome receptions (Guests from TUM, French Embassy t.b.d.)	-	Plenary meeting CDFA-PHS (Organizers of the doctoral college)	Evening Talk A critical view on PHS (A. van der Schaft)	Farewell party with campfire (if possible)	