







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

23 - 28 March 2025, Frauenchiemsee, Bavaria

Program

Program						
	Sunday 23 March	Monday 24 March	Tuesday 25 March	Wednesday 26 March	Thursday 27 March	Friday 28 March
Morning I 9:00-10:30	Shuttle from Munich airport departs at 12:30. Only for participants who chose this option during	Introduction: BayFrance, DFH-UFA Doctoral College PHS (A. Honsdorf, P. Kotyczka, B. Maschke, 30 min)	Lecture 5 Analysis of infinite- dimensional PHS (H. Zwart, B. Jacob)	Minicourse Optimization for PHS and PHS in Optimization Lecture M1 Motivational	Minicourse Optimization for PHS and PHS in Optimization Lecture M3 Numerical	Lecture 7 Introduction to irreversible PHS (H. Ramirez, 60 min) Lecture 8
		Lecture 1 Introduction to PHS (B. Maschke)		applications (M. Schaller, C. Totzeck)	Algorithms (M. Schaller, C. Totzeck)	Boundary controlled iPHS (Y. Le Gorrec, 30 min)
Coffee	registration.	Coffee	Coffee	Coffee	Coffee	Coffee
Morning II 11:00-12:00		Lecture 2 Structure and properties of PHS (A. van der Schaft)	Lecture 6 Control of infinite- dimensional PHS (Y. Le Gorrec, A. Macchelli)	Lecture M2 Theory (M. Schaller, C. Totzeck)	Advanced Topic M1 Advanced Topics (M. Schaller, C. Totzeck)	Advanced Topic 7 PHS with implicitly defined energy (B. Maschke) Closing and farewell (B. Maschke, P. Kotyczka)
		Lunch	Lunch	Lunch	Lunch	Lunch
Afternoon I 14:00-16:00	Check-in and welcome	PhD students' poster session	PhD students' poster session	Interactive session (outdoor if possible) 13:30 Boat departure	13:30 Boat departure for bus transfer	
(75 + 45 min)		Lecture 3 Control of finite- dimensional PHS (P. Borja)	Advanced Topic 2 Spatial discretization of PHS (D. Matignon)			
	Coffee	Coffee	Coffee	Excursion to	Coffee	
Afternoon II 16:30-18:00 (45 + 45 min)	:00 (P. Kotyczka,	Advanced Topic 1 Discrete-time PHS and control (A. Macchelli, P. Kotyczka) Lecture 4	Advanced Topic 3 Port-based models of nonlinear mechanical systems (P. Kotyczka) Advanced Topic 4	Herrenchiemsee	Advanced Topic 5 Krasovskii passivity- based output consensus (M. Cucuzzella) Advanced Topic 6	 Shuttle to Munich airport departs at
(45 + 45 mm)		Modeling of infinite- dimensional PHS (Y. Le Gorrec)	Geometry, topology and control in ports (S. Stramigioli)		Energy-based simulation in musical acoustics (T. Hélie)	14:00 from Gstadt.
Evening 20:00-	Welcome dinner and welcome receptions	Dinner EMS topical activity group PHS meeting	Dinner Plenary meeting CDFA-PHS organizers	Dinner Evening Talk Challenges in PHS: where are we and where to go? (A. van der Schaft)	Dinner Farewell party	

Advanced Topic

Lecture

Interactive Session

Social Event

Keynote