

Spring School on Theory and Applications of Port-Hamiltonian Systems (PHS 2022)

20 - 25 March 2022, Frauenchiemsee, Bavaria

Program

	Sunday, 20 March	Monday, 21 March	Tuesday, 22 March	Wednesday, 23 March	Thursday, 24 March	Friday, 25 March
Morning I 9:00-10:30		BayFrance, DFH-UFA, Doctoral College PHS (A. Honsdorf, P. Kotyczka, B. Maschke)	Introduction to PH DAE systems and normal forms (V. Mehrmann)	Semigroups and PHS on infinite-dimensional spaces (B. Jacob, H. Zwart)	Introduction to irreversible thermodynamics and GENERIC (H. C. Öttinger)	Discrete-time PHS and control (L. Lefèvre, P. Kotyczka)
		Introduction to PHS: Modeling, energy-based control (P. Kotyczka)	Numerics for DAE systems (V. Mehrmann)			Numerics for PH PDEs (D. Matignon)
		<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>
Morning II 11:00-12:00		Current trends and open questions in PHS (A. van der Schaft, B. Maschke)	Geometric approach for PH DAE systems (A. van der Schaft)	Stability, stabilization, and control by interconnection of infinite-dimensional PHS (Y. Le Gorrec, A. Macchelli)	Thermodynamic PHS, Lagrangian submanifolds (B. Maschke)	PHS with moving interface (B. Maschke)
						Closing and Farewell (B. Maschke, P. Kotyczka)
		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
Afternoon I 14:00-16:30	Check-in and welcome	PHS for smart grids (J. Scherpen)	Student presentations and discussion on DAE systems	13:30 Boat departure Excursion to Herrenchiemsee	Student presentations and discussion on thermodynamic systems	13:30 Boat departure for bus transfer
		PHS in robotics (S. Stramigioli)				
	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	
Afternoon II 17:00-18:00	First meeting (P. Kotyczka, A. Honsdorf, B. Maschke)	PHS in musical acoustics (T. Hélie)	Round Tables on selected topics		Round Tables on selected topics	
	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	
Evening 20:00-	Welcome dinner and welcome receptions (G. Müller, TUM H. Martin, Institut Français)		Plenary meeting CDFA-PHS (Organizers of the doctoral college)	Plenary talk: Let's play Dirac (H. Öttinger)	Farewell party	

Social Event	Scientific Talk	Lecture	Student Presentations	Round Table
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