Winterschool Program
Nov. 16

Organizers: Jean-Paul BONNET, Laurent CORDIER, Joël DELVILLE, Karine LOMBARD, Peter JORDAN, Bernd R. NOACK & Ghizlane THERON

Location: Institut P’, CEA T, 43 rue de l’Aérodrome, F-86000 Poitiers, Room 109: Salles des actes (morning), Room 1 (afternoon)

Monday, Nov. 29

9:00 Welcome by Jean-Paul BONNET
9:15 Bernd R. NOACK: Motivation for reduced-order modelling
10:15 Laurent CORDIER: Reduced-order representations (POD, DMD, other expansions)
12:00 Lunch break
14:00 Bernd R. NOACK & Laurent CORDIER: Explanation and distribution of xAMC – a toolkit for analysis, modelling and control.
17:30 Approximate end

Tuesday, Nov. 30

9:00 Laurent DAVID & B. TREMBLAIS: Flow modelization by orthogonal polynomials
10:30 Bernd R. NOACK: Galerkin projection (derivation of low-order systems)
12:00 Lunch break
14:00 Pierre COMTE, Peter JORDAN et al.: Explanation and distribution of data bases
17:30 Approximate end

Wednesday, Dec. 1

9:00 Joël DELVILLE: Reduced-order models for experimental data
11:00 Bernd R. NOACK: Finite-time thermodynamics — a novel reduced-order modelling paradigm
12:00 Lunch break
13:30 Project work (optional talks on request)
17:30 Approximate end

Thursday, Dec. 2

9:00 Laurent CORDIER: Model identification
10:00 Bernd R. NOACK: MIMO control
11:00 Laurent CORDIER: Optimal control
12:00 Lunch break
13:30 Project work (optional talks on request)
17:30 Approximate end

Friday, Dec. 3

9:00 Eric MOREAU & Nicolard BENARD: Plasma actuation for flow control
10:30 Not Yet NOMINANDUM: Reduced-order modelling for fluid structure interactions
12:00 Lunch break
13:30 Project work (optional talks on request)
17:30 Approximate end

Monday, Dec. 6

9:00 Project work supervised by Andre CAVALLIERI, Frank KERHERVÉ, Guillaume LEHNASCH
17:30 Approximate end

Tuesday, Dec. 7

9:00 Project work supervised by Andre CAVALLIERI, Frank KERHERVÉ, Guillaume LEHNASCH
17:30 Approximate end