SOUND AND FURY OF MODELING

ARPINO, NOVEMBER 13 -17 2023

HOTEL IL CAVALIER D'ARPINO

F. DELL ISOLA, J-L. GIAVITTO, T. PAUL ORG.

Program

Dimanche / Domenica 12/11/2023

cena / dîner

Lunedi 13/11/2023

9.00 **Benvenuto / Bienvnue**

09.30 - 10.30 **Mini course J-M. Coron** *A short history of feedback control: From the Ctesibios float regulator to the regulation of rivers*

pausa caffè / pause-café

11.00 - 12.00 **Mini course J-M. Coron** *(following)*

déjeuner / pranzo

15.00 - 16.00 **Student talks** *T. Ried, A. Rixte*

pausa caffè / pause-café

16.30 - 17.30 **Talk J-S. Dhersin** *Spatial evolution of an epidemic and « social » networks*

17.30 - . . . **Visit of Arpino** **Aperitivo**

cena / dîner

Martedi 14/11/2023

09.00 - 10.00 **Mini course F. dell'Isola** *Foundational Framework for Metamaterial Discovery and Rational Design*

pause-café / pausa caffè

10.30 - 11.30 **Mini course F. dell'Isola** *(following)*

11.30 - 13.00 **Student talks** *N. Tassi, C. Villalobos Guillén, C. Hundertmark*

pranzo / déjeuner

après-midi libre / pomeriggio libero

cena / dîner

21.00 - ... **Open Arpino serata M^3 animata da M. Pulvirenti** *Modeling Mathematically Movements: covid, birds, economy, computer-music, traffic, J-S. Dhersin, D. de Giacchino, J-L. Giavitto, M. Menci, S. Rossi*

Mercr(ol)edi 15/11/2023

9.00 - 10.00 **Talk G. Seminara** *A long journey wandering through Fluid Mechanics: Bio- Morpho- Eco-*
10.00 - 11.00 **Mini course A. Falaize** *The port-Hamiltonian formalism for the passive guaranteed modeling and simulation of multiphysical systems with applications in numerical sound synthesis*

pause-café / pausa caffè

11.30 - 12.30 **Mini course A. Falaize** *(following)*

pranzo / déjeuner

14.30 - 15.30 **Talk D. Di Giacchino** *Modelling Economic Policy in a (representative) democracy*

pause-café / pausa caffè

16.00 - 17.00 **Talk M. Schmidt** *On Michel Foucault's "Naissance de la clinique"*
17.00 - 17.45 **(mini)Talk T. Paul** *Quantum mechanics is intuitive outside the classical modeling*
18.00 - .... **Round Aperitivo Table "Modeling perspective from Greeks to nowadays** *dell'Iaola, Paul, Schhmidt, e tutti quanti*
21.00 *dîner de gala / cena di gala*

Giovedi/Jeudi 16/11/2023

09.00 - 10.00 **(mini)Mini course T. Paul** *How macro models micro, and conversely*

pausa caffè / pause-café

10.30 - 11.00 **(mini)Mini course T. Paul** *(following)*
11.00 - 12.00 **Student talks** *M.Menci, S. Rossi*

déjeuner / pranzo

15.00 - 16.00 **Mini course I. Capuzzo Dolcetta** *Differential games with a large number of players*

pause-café / pausa caffè

16.30 - 17.30 **Mini course I. Capuzzo Dolcetta** *(following)*
17.30 - 18.30 **Talk M. Stroppa** *Elements of cognitive composition and sensory thought*

dîner / cena

21.00 - ... **Listening session and concert, S. Ballon/M. Stroppa**

Ven(er)(dre)di 17/11/2023/

09.00 - 10.00 **Mini course J-L. Giavitto** *Modeling as programming: the contribution of declarative and domain- specific languages*

pausa caffè / pause-café

10.30 - 11.30 **Mini course J-L. Giavitto** *(following)*
11.30 - 12.30 **Talk M. Pulvirenti** *The Boltzmann equation as limit of mechanical particle systems*

déjeuner / pranzo

15.00 - ..... **après-midi "à batons rompus" / pomerrigio "brain storming"**

FINE / FIN