

Analysis and Control of Fluid-Structure Interaction Systems

Report of Contributions

Contribution ID: 26

Type: **not specified**

Stabilization of the water-waves equations

Thursday, 5 October 2017 11:30 (1 hour)

Presenter: Mr ALAZARD, Thomas (ENS Paris-Saclay, France)

Session Classification: Morning 05/10/17

Contribution ID: 27

Type: **not specified**

Tailoring the tails in Taylor dispersion

Tuesday, 3 October 2017 16:30 (1 hour)

Presenter: Mr CAMASSA, Roberto (UNC Carolina Center for Interdisciplinary Applied Mathematics, USA)

Session Classification: Afternoon 03/10/17

Contribution ID: 28

Type: **not specified**

High frequency analysis of Prandtl models

Thursday, 5 October 2017 10:30 (1 hour)

Presenter: Mr MARBACH, Frédéric (Université Pierre et Marie Curie, Paris, France)

Session Classification: Morning 05/10/17

Contribution ID: 29

Type: **not specified**

TBA

Thursday, 5 October 2017 09:00 (1 hour)

Presenter: Mr DESIMONE, Antonio (Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy)

Session Classification: Morning 05/10/17

Contribution ID: 30

Type: **not specified**

Stability of rigid bodies with a cavity filled by a viscous liquid

Monday, 2 October 2017 14:00 (1 hour)

Presenter: Mrs DISSER, Karoline (Weierstrass Institute, Berlin, Germany)

Session Classification: Afternoon 02/10/17

Contribution ID: 31

Type: **not specified**

Open loop stabilization of incompressible Navier–Stokes equations in a 2d channel using power series expansion

Wednesday, 4 October 2017 10:00 (1 hour)

Presenter: Mr ERVEDOZA, Sylvain (Université Paul Sabatier, Toulouse, France)

Session Classification: Morning 04/10/17

Contribution ID: 32

Type: **not specified**

Magnetic Propel Artificial Microswimmers

Tuesday, 3 October 2017 10:30 (1 hour)

Presenter: Mrs GIRALDI, Laetitia (INRIA Sophia Antipolis, France)

Session Classification: Morning 03/10/17

Contribution ID: 33

Type: **not specified**

Well-posedness of a fluid-elastic structure system

Monday, 2 October 2017 16:30 (1 hour)

Presenter: Mr GUERRERO, Sergio (Université Pierre et Marie Curie, Paris, France)

Session Classification: Afternoon 02/10/17

Contribution ID: 34

Type: **not specified**

Global Existence of Weak Solutions for Compressible Navier–Stokes Equations: Thermodynamically unstable pressure and anisotropic viscous stress tensor

Tuesday, 3 October 2017 14:00 (1 hour)

Presenter: Mr JABIN, Pierre-Emmanuel (UMD Center for Scientific Computation And Mathematical Modeling, USA)

Session Classification: Afternoon 03/10/17

Contribution ID: 35

Type: **not specified**

The global existence of a fluid-structure system with small data

Tuesday, 3 October 2017 09:00 (1 hour)

Presenter: Mr KUKAVICA, Igor (University of Southern California, USA)

Session Classification: Morning 03/10/17

Contribution ID: **36**

Type: **not specified**

Vanishing viscosity and rugosity limit

Monday, 2 October 2017 15:00 (1 hour)

Presenter: Mr LACAVE, Christophe (Institut Fourier, Grenoble, France)

Session Classification: Afternoon 02/10/17

Contribution ID: 37

Type: **not specified**

Lubrication forces in numerical simulations

Tuesday, 3 October 2017 11:30 (1 hour)

Presenter: Mrs LEFEBVRE, Aline (Ecole Polytechnique, Paris, France)

Session Classification: Morning 03/10/17

Contribution ID: **38**

Type: **not specified**

The Vlasov–Navier–Stokes system in a 2D box

Wednesday, 4 October 2017 11:00 (1 hour)

Presenter: Mr HAN-KWAN, Daniel (Ecole Polytechnique, Paris, France)

Session Classification: Morning 04/10/17

Contribution ID: 39

Type: **not specified**

Transport of congestion in two-phase compressible/incompressible flow

Tuesday, 3 October 2017 15:00 (1 hour)

Presenter: Mrs ZATORSKA, Ewelina (University College London, United Kingdom)

Session Classification: Afternoon 03/10/17

Contribution ID: 40

Type: **not specified**

Enlarged observability for parabolic semilinear system

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mrs ZOUITEN, Hayat (Moulay Ismail University; Meknes)

Session Classification: Poster session

Contribution ID: 41

Type: **not specified**

Local Null Controllability of a rigid body moving into a Boussinesq flow

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr ROY, Arnab (TIFR CAM; Bangalore)

Session Classification: Poster session

Contribution ID: 42

Type: **not specified**

Simulations of ship hull performance in head seas

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mrs OUARGLI, Hassiba (USTO; Oran)

Session Classification: Poster session

Contribution ID: 43

Type: **not specified**

Existence of a weak solution for a Viscoplastic Fluid-Solid system

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr OBANDO, Benjamin (Université de Lorraine, Nancy)

Session Classification: Poster session

Contribution ID: 44

Type: **not specified**

Feedback stabilization of a two-dimensional fluid-structure interaction system

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr NDIAYE, Moctar (Institut de Mathématiques de Toulouse)

Session Classification: Poster session

Contribution ID: 45

Type: **not specified**

Mathematic and Numerical modeling of Biogas production for valorizing domestic waste in Morocco

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr MOHCINE, Abdeslam (Université de Mohammed V; Rabat)

Session Classification: Poster session

Contribution ID: 46

Type: **not specified**

Feedback stabilization of a non-homogeneous Navier-Stokes equation in a 2d channel

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr MITRA, Sourav (Institut de Mathématiques de Toulouse)

Session Classification: Poster session

Contribution ID: 47

Type: **not specified**

Stabilization of a fluid-structure system

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr DELAY, Guillaume (Institut de Mathématiques de Toulouse)

Session Classification: Poster session

Contribution ID: 48

Type: **not specified**

Optimal control of the singular stochastic (random) Problem

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr CHAFIA, Laouar (Laboratoire Rapheil Salam; Rouen)

Session Classification: Poster session

Contribution ID: 49

Type: **not specified**

Method of singular mass matrix and singular perturbation problem

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr BERKANE, Ali (Badji-Mokhtar University; Annaba)

Session Classification: Poster session

Contribution ID: 50

Type: **not specified**

A particular wave-structure interaction problem for the water waves equations

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr BENYO, Krisztian (Institut de Mathématiques de Bordeaux)

Session Classification: Poster session

Contribution ID: 51

Type: **not specified**

Modeling a fluid-particle system with colloidal interactions

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mrs BATTEAUX, Léa (Université des Antilles; Point-à-Pitre)

Session Classification: Poster session

Contribution ID: 52

Type: **not specified**

Maximal regularity to the Stokes problem with Navier-type boundary conditions

Tuesday, 3 October 2017 17:30 (1h 30m)

Primary author: Mr AL BABA, Hind (Czech Academy of Sciences; Prague)

Session Classification: Poster session