

UNIVERSITÉ CÔTE D'AZUR COMPLEX DAYS: PROGRAM

8h45 - 9h

Registration and Welcome Coffee

9h15 - 10h

Keynote Lecture, Márton Karsai,
Laboratoire de l'Informatique du Parallélisme à l'Ecole Normale Supérieure de Lyon
Socioeconomic dependencies of linguistic patterns and their inference in Twitter

10h - 10h30

Coffee break

10h30 - 11h15

"FLASH TALKS"

Mauro Napolitano - OFCE SciencesPo - SKEMA BUSINESS SCHOOL
Leverage-driven cycles and complex dynamics in a model with endogenous network formation

Céline Cohen - INPHYNI
The capillary bridge technique to study superhydrophobic surfaces

Bruno Marcos - JAD
Two-temperature Brownian dynamics of a particle in a confining potential

Aurelien Larcher - CEMEF, CFL - MINES ParisTech
High fidelity conservative and adaptive levelset method for complex two-fluid flows

Enrico Formenti - I3S
Decidability of sensitivity to initial conditions and equicontinuity for linear high-order cellular automata over Z_m

Duc Quang Tran - INPHYNI
Swimming of individual *Phytophthora Parasitica* zoospores in water

Mattia Guerini - OFCE SciencesPo - SKEMA BUSINESS SCHOOL
Borrowing constraints, banks' time horizons and industry evolution

Anselmo Pereira - CEMEF, CFL - MINES ParisTech
Impact, buckling, and breakup of yield stress fluid droplets, jets and filaments

Federica Spoto - LAGRANGE
Detection of non-gravitational perturbations in the Gaia era

Nicolas Bruot - INPHYNI, iBV
Mechanics of filamentous growth in soft materials

Fabio Vanni - OFCE SciencesPo - SKEMA BUSINESS SCHOOL
Time-scale free networks class with anomalous bursty dynamics

Svetlana Slepneva - INPHYNI
Dynamics of Fourier Domain Mode Locked laser

13h45 - 15h

"FLASH TALKS"

Sylvain Bonnefond - INPHYNI
Light Amplification by multiple scattering in living systems

Thomas Perez - JAD
Geometrical constraints to reduce complexity in quantum molecular systems

Rami Mantach - CRHEA
Thin SOI: a substrate dedicated to optimal growth of semi polar nitrides and heterostructures

Claudio Barbieri - GREDEG
Synchronization of Government Yields in the Eurozone

Omar Boughdad - INPHYNI
Superfluidity of light in a bulk nonlinear crystal

Chahrazade Bahbah - CEMEF - MINES ParisTech
Accurate Adaptive Eulerian Framework for Liquid-gas-solid Interactions

Adrien Garcia - ICN
The Asymmetry of Life

Jesus Sanchez Rodriguez - INPHYNI
Simple model for aquatic locomotion

Fian Assemien - PERSEE - MINES ParisTech
Numerical study of the Ranque-Hilsch vortex tube

Thea Ragon - GEOAZUR
Uncertainties in earthquakes source estimates

Cédric Bouysset - ICN
Modeling taste perception from chemical structures

Christophe D'Angelo - INPHYNI
Impacts of bicomposite elastic projectiles

Luca Fontanelli - GREDEG
Technological competition and international trade in markets with dynamic increasing returns

Sofia Allende - MINES ParisTech
Dynamics and fragmentation of small flexible fibers in turbulence

Nino Kukhaleishvili - INPHYNI, iBV
Determination of turgor pressure of filamentous yeast

Ahmed Eman - I3S
Modeling of Goal-oriented Human Motion Evolution using Hidden Markov Models

Julian Mejia - INPHYNI
Detection Methods of Cell Deformability

Benjamin Reeves - ICN
Studying the behaviour of radioactive elements on Earth through an example, uranium and sea urchins

Junfeng Chen - CEMEF - MINES ParisTech
Drag-lift prediction for random 2D shapes with supervised neural networks in low-Reynolds flow

15h - 17h

Coffee-Poster Session

17h - 17h45

Keynote Lecture, Christian Rey, Centre de recherche de SAFRAN
Some challenges of tomorrow's design system for complex systems

17h45 - 18h30

Keynote Lecture, Nadine Peyrieras, Institut des Neurosciences de Paris-Saclay
Multilevel dynamics in metazoan morphogenesis

18h30

Aperitif and Awards Ceremony

20h

Closing dinner

11h15 - 12h

Keynote Lecture, Jean-Louis Dufresne,
Laboratoire de Météorologie Dynamique à l'Institut Pierre Simon Laplace, Paris
Confidence and uncertainties in climate change projections: Role of model construction and model analysis

12h15 - 13h45

Networking lunch