

## Annual Meeting of the COMPLEX Doctoral School

**November 15, 2022**

**Université de Mons**  
Bâtiment De Vinci  
room Mirzakhani, first floor  
Avenue Victor Maistriau 15  
7000 Mons

9h45-10h00: Registration

10h00-10h15: Welcome

10h15-12h15: Short talks (titles on the back)

- 10h15-10h35: Louise Sadoine (UMONS)
- 10h35-10h55: Guillaume Palumbo (UMONS)
- 10h55-11h15: Nathan Vanesse (ULiège)
- 11h15-11h35: Jean-François de Kemmeter (UNamur)
- 11h35-11h55: Cédric Simal (UNamur)
- 11h55-12h15: Cédric Schoonen (ULB)

12h15-14h00: Lunch break (sandwiches)

14h00-16h00: Short talks (titles on the back)

- 14h00-14h20: Guillaume Saës (UMONS)
- 14h20-14h40: Gaëtan Staquet (UMONS)
- 14h40-15h00: Damien Galant (UMONS and UPHF)
- 15h00-15h20: Martin Moriamé (UNamur)
- 15h20-15h40: Léopold Van Brandt (UCL)
- 15h40-16h00: Thierry Njougouo (UNamur)

16h30: Award for the best presentation

16h45: Drink

## **Titles of the presentations:**

Louise Sadoine (UMONS) : Towards decentralized models for day-ahead scheduling of energy resources in Renewable Energy Communities

Guillaume Palumbo (UMONS) : Sur les systèmes hors-équilibres couplés à plusieurs thermostats

Nathan Vanesse (ULiège) : Trapping Active Matter with Dipolar Magnetic Interactions

Jean-François de Kemmeter (UNamur) : Self-segregation in heterogeneous metapopulation landscapes

Cédric Simal (UNamur) : Effects of local interactions on epidemic spreading in networks of structured populations

Cédric Schoonen (ULB) : Using classical density functional theory to investigate the early stages of crystallization

Guillaume Saës (UMONS) : Une analyse multifractale de signaux textométrique par des méthodes en ondelettes

Gaëtan Staquet (UMONS) : Verification of computer systems thanks to state machines

Damien Galant (UMONS and UPHF) : Sur la notion de "ground state" pour l'équation de Schrödinger non-linéaire sur des graphes métriques

Martin Moriamé (UNamur) : Selection of controlled nodes to reduce synchronization in Kuramoto oscillators networks

Léopold Van Brandt (UCL) : Stochastic thermodynamics and electronic devices

Thierry Njougouo (UNamur) : Dynamics of multilayer networks with amplification