Dynamical processes on networks (II)

<u>13h00-13h45</u> Yuzuru Kato & Hiroya Nakao, Tokyo Institute of Technology (Japan)

Turing instability in quantum activator-inhibitor systems

<u>14h00-14h15</u> Timoteo Carletti, Alexandre Mauroy & Hiroya Nakao

5' introduction to our research teams

<u>14h15-15h45</u> 6 talks <u>15h45-16h15</u> coffee break <u>16h15-17h45</u> 6 talks



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Dynamical processes on networks (II)

14h15-15h45

- Jean-François de Kemmeter (UNamur) "social adoption on signed simplicial complexes"
- Jinjie Zhu (Tokyo Tech) "Synchronization dynamics for SISR oscillators with all-to-all coupling"
- Cédric Simal (UNamur) "Effects of local interactions on epidemic spreading in networks of structured populations"
- Tomokatsu Onaga (Tohoku U) "Dynamics of social diffusion: A message-passing approach"
- Christian Mugisho-Zagabe (UNamur) Global stability of a flow-invariant set for nonlinear systems : Construction of a Lyapunov function via Koopman operator theory
- Renato Vizuete (UNamur and UCLouvain) "The Laplacian spectrum of large graphs sampled from graphons"

<u>16h15-17h45</u>

- Shigefumi Hata (Kagoshima U) "Relationship between degree and weighted degree of hypergraph"
- Martin Moriamé (UNamur) "Selection of controlled nodes to reduce synchronization in Kuramoto oscillators networks"
- Petar Mircheski (Tokyo Tech) "Phase-amplitude reduction of collective oscillating networks"
- Riccardo Muolo (UNamur)(Teams) "The impact of directed high-order interactions on synchronization"
- Ryota Kobayashi (Univ. Tokyo) "Estimating neural connectivity from multiple spike trains"
- Anthony Hastir (UNamur) "Infinite-dimensional systems and control theory"



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