



# Chaire Francqui 2022-2023

## *On topology and higher-order dynamics of networks and simplicial complexes*



Prof Ginestra Bianconi  
Queen Mary University of  
London and The Alan  
Turing Institute (UK)

### Inaugural lecture

*Topology shapes higher-order network dynamics*

Monday, April 17<sup>th</sup>, 2023, at 17:00

Auditoire PA02

### Next lectures, room S09

Tuesday 18/4/23

10:40 – 12:40 *Introduction to simplicial complexes and algebraic topology*

14:00 – 16:00 *Topological Synchronization*

Wednesday 19/04/23

10:40 – 12:40 *The Dirac operator on networks and simplicial complexes*

14:00 – 16:00 *Higher-order network dynamics driven by the Dirac operator*

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