



Symposium on Complexity Science



To mark the 70th Birthday of Prof. Henrik Jeldtoft Jensen

Talks by Henrik's former and current
collaborators, colleagues and Students

15th of May 2026

9:30 am – 9:30 pm

Imperial College, Huxley Building room 144



Networks and Basic Formalism

Medical Applications

Society, Economics and Biological Systems

Neuroscience and Music

Followed by Birthday reception in the Physics Common room

Imperial College London

To register for the Symposium, please go to www.imperial.ac.uk/complexity
Pay £10 towards catering

Networks and Basic Formalism, Chair: Dr. Tim Evans

9:30	Welcome		
9:45	Prof. Pergiolio Tempesta	Universidad Complutense de Madrid and Instituto de Ciencias Matemáticas	Group Entropies in Statistical Mechanics and Complexity Science
10:00	Dr. Gunnar Pruessner	Imperial	Some open questions in self-organised criticality
10:15	Prof. Geovanni Petri	North Western University, London	Bound by semanticity: Universal laws governing the generalization-identification tradeoff
10:30	Prof. Renaud Lambiotte	Oxford University	A short walk on networks
10:45	Dr. Juan Lopes	Instituto de Fisica de Cantabria	TBC
11:00	Dr. Hans Weber	Luleå University, Sweden	XY and related models in two and three dimensions

11:45 COFFEE & TEA

Medical Applications, Chair: Prof. Kim Christensen

11:45	Dr. Matt Hall	National Physics Laboratories	The glorious and terrifying complexity of MRI
12:00	Prof. Tomas Alarcon	Centre de Recerca Matematica	Epigenetic tipping points induced by competition for chromatin-modifying enzymes
12:15	Prof. Mario Nicodemi	University of Naples	Phase transitions in the nucleus of cells
12:30	Dr. Stefano Lise	UCL	Cancer as an evolutionary process
12:45	Prof. Andrew Brass	University of Manchester	TBC

13:00 LUNCH

Society, Economics and Biological systems, Chair: Dr. Eduardo Viegas

14:00	Dr. Jørgen Vitting Andersen	Centre D'Economie de la Sorbonne	An introduction to socio-finance
14:15	Dr. Katharina Brink	Egon Zehnder, Munich Germany	Complexity literacy: A foundation for 21 st -century leadership and democracy
14:30	Prof. Elsa Arcuede	UCL	Patterns through flows in cities
14:45	Dr. Paul Expert	UCL	Agency in complex social systems
15:00	Dr. Duccio Piovani	UN World Food Programme	The whole is more than the sum of its parts
15:15	Dr. Hayato Goto	Toyota research	TBC
15:30	Prof. Daniel Lawson	Bristol University	Self-organisation of societal collapse – advice for powerful leaders

15:45 COFFEE & TEA

Neuroscience and Music, Chair: Prof. Henrik Jeldtoft Jensen

16:15	Prof. Lucilla de Arcangelis	Universita della Campania "Luigi Vanvitelli", Naples, Italy	Allometric scaling of brain activity explained by avalanche criticality
16:45	Dr. Fernando Rosas	Sussex university	Synergy as a common denominator of music and the brain"
16:57	Dr. Pedro Mediano	Imperial	TBC
17:10	Dr. Hardik Rapal	Imperial	Information, individuality and evolution
17:22	Dr. Madalina Sas	Imperial	TBC
17:35	Mr. Alberto Liardi	Imperial	Neural markers of shared conscious experiences in classical music improvisation

CHANGE OF ROOM to City and Guilds Building – room 300

18:00	Prof. David Dolan	Guildhall School of Music	Between structuring improvisation and improvising musical structure
-------	-------------------	---------------------------	---

19:00 RECEPTION