

Non linear dynamics in geosystems and reduced complexity models

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A tribute to Claude Allègre and Jean-Louis Le Mouél

Début des cours: le jeudi 21 septembre 14h-18h

Lecture 1 (FP)	Universality of non-linear processes in geophysics at various scales.
Lecture 2 (FP)	From linear to non-linear systems.
Lecture 3 (FP)	Instabilities and dynamical states.
Lecture 4 (FP)	Morphogenesis.
Lecture 5 (FP)	Road traffic and jam bifurcation problem.
Lecture 6 (JPV)	open, to be confirmed
Lecture 7 (JPV)	open, to be confirmed
Lecture 8 (CN)	Introduction to the science of complex systems.
Lecture 9 (CN)	Hierarchical systems in geophysics.
Lecture 10 (CN)	Self-organization and the emergence of patterns.
Lecture 11 (CN)	Sediment transport and geomorphic processes.