

**In the Neighborhood of Spatio-Temporal Chaos:
Experimental Studies in 1D and 2D.**

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I will base my talk on four experiments : spirals in the Belousov-Zhabotinsky reaction (2D structure), the spinning fountain, directionnal solidification and Rayleigh-Benard convection in an annular cell. Emphasis will be given on pre-chaotic states and on mechanisms to spatio-temporal chaos. Similarities and differences will be analyzed, especially regarding the role of symmetries.