

ÉCOLE D'ÉTÉ « MÉCANIQUE STATISTIQUE DE NON-ÉQUILIBRE »  
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SUMMER SCHOOL ON “NON-EQUILIBRIUM STATISTICAL MECHANICS”  
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## Typicality in classical and quantum information theory

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After introducing the mathematical setting for the discussion of classical and quantum information theory, the concept of typicality and universal typicality in such systems will be introduced. I explain its importance in fundamental results like the Shannon–McMillan–Breiman and Sanov's Theorem in the classical as well as the quantum context. Typicality in higher dimension systems — as a step towards a multidimensional Lempel–Ziv algorithm — will round off this mini-course.

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