Sofic Entropy

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Abstract

Kolmogorov-Sinai entropy is defined with $\mathbb{Z}$ or lattice $\mathbb{Z}^d$ as acting group and can be generalised to amenable groups and further yet to sofic groups. During the talk i will present some motivation and counterarguments concerning this generalisation, define sofic groups and prove some of their properties. After this preparation I will introduce sofic entropy of a process with some examples. Then I will talk about the relationship of sofic entropy with other notions of entropy when they coincide.