Westfälische
Wilhelms-Universität
Münster

Mathematische Institute der WWU – Kolloquium Wilhelm Killing

Entropy and soficity

Professor David Kerr (Texas A&M University)

3.11.2011, 16:30 Uhr, Hörsaal M 5

In the late 1950s Kolmogorov introduced the concept of entropy into ergodic theory, and since then it has become a pervasive presence in the study of actions of amenable groups. Recently Lewis Bowen showed, quite surprisingly, that one can vastly extend the scope of this classical theory to measure-preserving actions of groups which satisfy a much weaker kind of finite approximation property called soficity. Subsequently Hanfeng Li and I developed a more general and flexible operator-algebraic approach to sofic measure entropy which also yields a topological version and a variational principle relating the two. I will describe all of these developments and discuss some key examples that establish a second connection to operator algebras.

Tee wird ab 16:00 Uhr im Sitzungszimmer SR 0 des Mathematischen Instituts serviert.

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