

## Some Thoughts on Approach to Equilibrium

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Inspired by the successes of algebraic quantum statistical mechanics in dealing with some fundamental nonequilibrium questions, we investigate the relation between “approach to equilibrium” (sometimes called the Zeroth Law) and the Second Law. Short of being able to provide a new example of non-trivial and physically pertinent system approaching equilibrium, we bring some partial answers to a question raised by David Ruelle in 1967. This is a joint work with Vojkan Jaksic and Clément Tauber.

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