

Correction to

**AN ALGEBRAIC FORMULATION OF ERGODIC PROBLEMS**

by

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In Reference 1 we stated (p.195, fourth line from the bottom): "Reciprocally, a positive, continuous, linear functional of norm 1 on  $\mathcal{A}$  has the form

$$\rho(T) = \text{Tr}(WT), T \in \mathcal{A}_h,$$

which can then be extended to all observables." This is false. One needs to add the condition that the functional be normal, a result known as Gleason's theorem [3]. This correction does not change any of the results on the Kolmogorov entropy [1,2] because there only the finite additivity of  $\rho$  is used, which holds for any state.

**References**

1. S. M. Moore, *Rev. Col. Mat.* 1X(1975), 189-204.
2. S. M. Moore, *Rev. Col. Mat.* X(1976), 57-68.
3. A. M. Gleason, *J. Rat. Mech. and Analysis* 6 (1957), 885.

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