

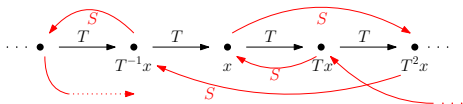
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Main interest: Orbit equivalence

(X, μ) standard probability space.

$T, S: X \rightarrow X$ μ -preserving bijections
satisfying $\{T^n x \mid n \in \mathbb{Z}\} = \{S^n x \mid n \in \mathbb{Z}\}$



Quantitative orbit equivalence: adding restrictions on the distortions

\leadsto notion of φ -integrable orbit equivalence

(the faster $\varphi: \mathbb{R}_+ \rightarrow \mathbb{R}_+$ goes to $+\infty$, the stronger is the restriction)

Theorem (Kerr, Li 2023)

log-integrable orbit equivalence preserves entropy.

Theorem (C. 2025+)

For every $\alpha < 1$, \log^α -integrable orbit equivalence does not preserve entropy.

The counter-examples:

Odometer S

\leadsto



Odomutant T

