## Strongly mixing operators on Hilbert spaces and speed of mixing

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In measurable dynamics, a measurable map  $T: (X, \mathcal{B}, m) \longrightarrow (X, \mathcal{B}, m)$ acting on a probability space is said to be strongly mixing if the probability measure m is T-invariant, that is  $m(T^{-1}(A)) = m(A)$   $(A \in \mathcal{B})$ , and  $m(T^{-n}(A) \cap B) \xrightarrow[n \to +\infty]{} m(A)m(B)$   $(A, B \in \mathcal{B})$ . We are interested in the speed of mixing when T is a bounded linear operator on a separable Hilbert space which is strongly mixing with respect to a Gaussian measure.