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Geometric Function Theory in Several Complex Variables and Complex Banach Spaces

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Classical and recent results on the existence of invariant measures for transition functions

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Abstract

First, we shall review the classical Krylov-Bogolyubov result and the Doeblin condition for the existence of invariant (equilibrium) distributions of a Markov process. Then we present some recent developments on this topic, obtained jointly with Iulian Cîmpean (Bucharest) and Michael Röckner (Bielefeld).