SHADOWING AND MIXING ON SYSTEMS OF COUNTABLE GROUP ACTIONS

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Abstract: Let (X,G,Φ) be a dynamical system, where X is compact Hausdorff space, and G is countable discrete group. Fix some finite subset $S\subset G$. We prove that if X is totally disconnected, then Φ has S-shadowing property if and only if (X,G,Φ) is conjugate to an inverse limit of a sequence of shifts of finite type which satisfies Mittag-Leffler condition. Also, suppose that X is metric space (may be not totally disconnected), we prove that if Φ has S-shadowing property, then (X,G,Φ) is a factor of an inverse limit of a sequence of shifts of finite type by a factor map which almost lifts pseudo-orbit for S.