Mathematics > Dynamical Systems

Topological transitive Abelian subgrouns of GL(n,R)

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We give a complete characterization of abelian subgroups of GL(n, R) with a locally dense (resp. dense) orbit in R^n. For finitely generated subgroups, this characterization is explicit and it is used to show that no abelian subgroup of GL(n, R) generated by [(n+1)/2] matrices can have a dense orbit in R^n. ([ ] denotes the integer part).

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