

Topological transitive Abelian subgroups of $GL(n, \mathbb{R})$

Adlene Ayadi, Habib Marzougui, Ezzeddine Salhi

(Submitted on 31 Oct 2010)

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

Subjects: **Dynamical Systems (math.DS)**

Cite as: [arXiv:1011.0178v1](https://arxiv.org/abs/1011.0178v1) [math.DS]

Submission history

From: Adlene Ayadi [[view email](#)]

[v1] Sun, 31 Oct 2010 16:42:05 GMT (29kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.DS

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1011](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

