

---

Zbl 0545.54026

Joó, I.; Stachó, L.L.

Two remarks on pointwise periodic topological mappings. (English)

Acta Sci. Math. 46, 377-379 (1983).

<http://www.math.u-szeged.hu/acta/>

A topological space  $\Omega$  is a quasi F-space if for every pair of disjoint sequences  $\{x_n : n \in \mathbb{N}\}$ ,  $\{y_n : n \in \mathbb{N}\} \subset \Omega$  there exists an infinite index set  $I \subset \mathbb{N}$  such that  $\overline{\{x_n : n \in I\}} \cap \overline{\{y_n : n \in I\}} = \emptyset$ . A direct proof and a generalization to countably compact quasi F-spaces is given for the following theorem [in *L. L. Stachó*, Ann. Mat. Pura Appl., IV. Ser. 128, 207-225 (1980; Zbl 0528.47041)]: A pointwise periodic topological automorphism of a compact F-space is necessarily periodic.

*Keywords* : automorphism; Baire group homomorphism; countably compact quasi F-spaces

*Classification* :

- \*54C10 Special maps on topological spaces
- 54F05 Ordered topological spaces
- 54D30 Compactness