

**del Junco, A.; Rudolph, D. J.**

**A rank-one, rigid, simple, prime map.** (English) Zbl 0634.54020  
[Ergodic Theory Dyn. Syst.](#) 7, 229-247 (1987).

The authors construct a new, simple, prime map  $T$ , of the symbol space of two symbols. The map is rigid and the measure preserving maps commuting with  $T$ ,  $C(t)$ , are uncountable. Since  $T$  is simple, any factor of  $T$  is the algebra of invariant sets of some weakly compact subgroup of  $C(T)$ . The authors show that  $C(T)$  has no such subgroups and so  $T$  is prime.

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**Keywords:**

prime map; symbol space; algebra of invariant sets; weakly compact subgroup