

Choksi, J. R.; Nadkarni, M. G.

The group of eigenvalues of a rank one transformation. (English) Zbl 0833.28008
Can. Math. Bull. 38, No. 1, 42-54 (1995).

In an earlier paper [Can. Math. Bull. 37, No. 1, 29-36 (1994; Zbl 0793.28013)], the authors gave a description of the maximal spectral type of a rank one transformation T , as a certain generalized Riesz product. Apparently it was suggested by J.-F. Mela that this description is related to the group $e(T)$ of L^∞ -eigenvalues of T . These are the L^2 -eigenvalues when the underlying space is of finite measure, but the usual cutting and stacking construction for rank one maps allows the resulting measure space to be σ -finite.

Several characterizations of $e(T)$ are given for rank one T , one of which is intimately related to the corresponding expression for the maximal spectral type of T .

Reviewer: [G.R.Goodson \(Towson\)](#)

MSC:

[28D05](#) Measure-preserving transformations

[47A35](#) Ergodic theory of linear operators

Cited in **3** Documents

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