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Sergey Bezuglyi* (sergii-bezuglyi@uiowa.edu), **Olena Karpel** and **Jan Kwiatkowski**.

Exact number of ergodic invariant measures for Bratteli diagrams.

We study the simplex $M_1(B)$ of probability measures on a Bratteli diagram B which are invariant with respect to the tail equivalence relation. We prove a criterion of unique ergodicity of a Bratteli diagram. In case when a finite rank k Bratteli diagram B has $l \leq k$ ergodic invariant measures, we describe the structures of the diagram and the subdiagrams which support these measures. We find conditions under which the extension of a measure from a uniquely ergodic subdiagram is a finite ergodic measure. (Received February 04, 2018)