## Ryotaro Sato Another proof of Derriennic's reverse maximal inequality for the supremum of ergodic ratios

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**Abstract:** Using the ratio ergodic theorem for a measure preserving transformation in a  $\sigma$ -finite measure space we give a straightforward proof of Derriennic's reverse maximal inequality for the supremum of ergodic ratios.

Keywords:  $\sigma$ -finite measure space, measure preserving transformation, conservative, ergodic, supremum of ergodic ratios, maximal and reverse maximal inequalities AMS Subject Classification: Primary 28D05, 47A35