

**Winfried Just**

*The sizes of relatively compact  $T_1$ -spaces*

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**Abstract:** The relativization of Gryzlov's theorem about the size of compact  $T_1$ -spaces with countable pseudocharacter is false.

**Keywords:** relatively compact, relatively Lindelöf,  $T_1$ -space, measurable cardinal

**AMS Subject Classification:** 54A25, 54D20