

**Woodin, W. Hugh****Supercompact cardinals, sets of reals, and weakly homogeneous trees.** (English)[Zbl 0656.03037](#)

Proc. Natl. Acad. Sci. USA 85, No. 18, 6587-6591 (1988).

It is shown that if there exists a supercompact cardinal then every set of reals which is an element of  $L(\mathbb{R})$  is the projection of a weakly homogeneous tree. As a consequence of this theorem and recent work of *D. A. Martin* and *J. R. Steel* [reviewed above (see [Zbl 0656.03036](#))], it follows that (if there is a supercompact cardinal) every set of reals in  $L(\mathbb{R})$  is determined.

**MSC:**[03E60](#) Determinacy principles[03E55](#) Large cardinals[03E15](#) Descriptive set theoryCited in **2** ReviewsCited in **38** Documents**Keywords:**

supercompact cardinal; weakly homogeneous tree

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