

**Steel, J. R.**

**Inner models with many Woodin cardinals.** (English) Zbl 0805.03043

*Ann. Pure Appl. Logic* 65, No. 2, 185-209 (1993).

This paper extends the author's work on fine structure and iteration trees [see the review above] to models with more than one Woodin cardinal.

The main result of the paper is: Assume there are (in order type)  $\theta$ -many Woodin cardinals. Then there is a good extender sequence  $\vec{E}$  such that (1)  $L[\vec{E}] \models$  "there are  $\theta$  Woodin cardinals", (2) every level  $J_\alpha^{\vec{E}}$  of  $L[\vec{E}]$  is an  $\omega$ -sound, meek premouse, (3)  $L[\vec{E}] \models$  GCH.

The paper concludes with a discussion of minimal models which also satisfy "there are  $\omega$  Woodin cardinals". The paper announces results to appear elsewhere of the case where there are  $n$  Woodin cardinals.

Reviewer: A.M.Coyne (Asheville)

**MSC:**

03E55 Large cardinals

Cited in **2** Reviews  
Cited in **36** Documents

**Keywords:**

fine structure; iteration trees; models with more than one Woodin cardinal; extender sequence; minimal models

**Full Text:** [DOI](#)

**References:**

- [1] D.A. Martin and J.R. Steel, Iteration trees, in the J. AMS, to appear · [Zbl 0808.03035](#)
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- [3] W.J. Mitchell, Embeddings of iteration trees, unpublished notes
- [4] W.J. Mitchell and J.R. Steel, Fine structure and iteration trees, ASL Lecture Notes in Logic, to appear
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