Random Trees Under CH

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We extend Jensen's Theorem that Suslin's Hypothesis is consistent with CH, by showing that the statement *Suslin's Hypothesis holds in any forcing extension by a measure algebra* is consistent with CH. In doing so we prove that a variation of the principle $(*)$ (see [AT97] and [Tod99]) for closed sets of ordinals is consistent with GCH. We also extend Silver's Theorem that, assuming the existence of an inaccessible cardinal, the failure of Kurepa's Hypothesis is consistent with CH, by showing that the statement *Kurepa's Hypothesis fails in any forcing extension by a measure algebra* is consistent with CH.

[AT97] Uri Abraham and Stevo Todorčević, *Partition properties of ω_1 compatible with* CH, Fund. Math. **152** (1997), no. 2, 165–181.

[Tod99] Stevo Todorčević, *A dichotomy for P-ideals of countable sets*, preprint, 1999.

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