INDESTRUCTIBILITY OF THE TREE PROPERTY OVER MODELS OF PFA

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The tree property at a regular cardinal κ states that every κ -tree has a cofinal branch. We will prove that over any transitive model of PFA, the tree property at ω_2 cannot be destroyed by the single Cohen forcing Add(ω , 1). We will observe that a model-theoretic principle, Guessing model principle (GMP), is enough for the result. GMP can be formulated also for larger cardinals, so our result extends to $\kappa^{++} \geq \omega_2$ and Cohen forcing Add(κ , 1) (κ regular).

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