A FORCING EXTENSION OF A $(\omega_2, 1)$ SIMPLIFIED MORASSES WITH NO $(\omega_2, 1)$ SIMPLIFIED MORASSES WITH LINEAR LIMITS USING AN UNFOLDABLE CARDINAL.

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Abstract. Lee Stanley [3] has observed that if κ is supercompact cardinal then there is a forcing extension where there is a $(\omega_2, 1)$- simplified morass but there is no $(\omega_2, 1)$-simplified morass with linear limits. Using the lottery preparation, a technic developed by Joel Hamkins in [1], we just need a strongly unfoldable cardinal for the same observation.

Let κ an unfoldable cardinal, the forcing $\mathbb{P}$ which adds a $(\kappa, 1)$-simplified morass is κ-closed and it is also κ^+-c.c., although we can't extend the unfoldable embeddings in the ground model using directly this forcing (since it is too big to be in any M transitive model of ZFC^- of size κ), it is possible to do it thanks to a properness condition [2].

REFERENCES

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