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Forcing axioms and P_{\max}

Abstract

In 2019, in joint work with D. Asperó we proved that the $++$ version of Martin's Maximum implies Woodin's P_{\max} axiom (*). This amalgamated two maximality principles which decide the size of the continuum and which prior to our result had sometimes been seen as competitors. Our result in fact produces a specific version of the Ω conjecture, and it sheds light on the duality of forcing over ZFC models with large cardinals and forcing over determinacy models.

Reading materials

Visit <https://ivv5hpp.uni-muenster.de/u/rds/singapore.html>