

Uniformization properties of ladder systems under $MA(S)$

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Abstract

We will study several uniformization and anti-uniformization properties of ladder systems. Under MA , all ladder system are uniformizable in a strong sense and fail to satisfy anti-uniformization properties. On the other hand, we will prove that after forcing with a Souslin tree, no ladder system is uniformizable, even in weaker ways. Finally, we will determine exactly which uniformization and anti-uniformization properties satisfy each ladder system in models obtained by forcing with a Souslin tree over models of $MA(S)$.