Maximal normal subgroups of the automorphism groups of free nilpotent groups

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Abstract. We prove that the subgroup of all IA-automorphisms of the automorphism group $\operatorname{Aut} N$ of a free nilpotent group N of infinite rank is normality-small. As a consequence, every maximal normal subgroup of the group $\operatorname{Aut} N$ is a lifting of a maximal normal subgroup of the automorphism group $\operatorname{Aut} A$ of the abelianization $A = N/[N, N]$ of N.

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