Title: Maximal normal subgroups of the automorphism groups of free nilpotent groups

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

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