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### **An Application of the Dieudonné Determinant: Detecting Non-Tame Automorphisms**

We show how to detect non-tame automorphisms by using a criterion which is based on the Dieudonné determinant and we construct some specific non-tame automorphisms of free metabelian Lie algebras and free Lie algebras of the form  $F/\gamma_m(F)'$ .

**Keywords:** Dieudonne determinant, Lie algebra, non-tame automorphism.

**MSC:** 17B01, 17B40