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Meera G. Mainkar* (meera.g.mainkar@dartmouth.edu), Department of Mathematics, Kemeny Hall, Dartmouth College, Hanover, NH 03755, and Cynthia E. Will (cwill@mate.uncor.edu), FaMAF and CIEM, Universidad Nacional de Cordoba, Haya de la Torre S/N, 5000 Cordoba, Argentina. Anosov Automorphisms on Nilmanifolds.

Nilmanifolds admitting Anosov automorphisms play an important role in the theory of dynamical systems. These nilmanifolds correspond to Anosov Lie algebras of which few examples were known. We will describe some recent examples of Anosov Lie algebras constructed using algebraic units. (Received September 18, 2007)