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**Cyclic homology and homology of the Lie algebra of matrices. (Homologie cyclique et homologie de l'algèbre de Lie des matrices.)** (French) [Zbl 0536.17006](#)

C. R. Acad. Sci., Paris, Sér. I 296, 295-297 (1983).

Summary: For any associative algebra over a field of characteristic zero it is shown that the primitive part of the homology of the Lie algebra of matrices is isomorphic to the cyclic homology (or Connes homology) of the algebra. A stability theorem for the homology of the Lie algebra of matrices is also demonstrated.

**MSC:**

[17B55](#) Homological methods in Lie (super)algebras

[15A30](#) Algebraic systems of matrices

[57T05](#) Hopf algebras (aspects of homology and homotopy of topological groups)

Cited in **3** Reviews  
Cited in **3** Documents

**Keywords:**

primitive part; homology; Lie algebra of matrices; cyclic homology; Connes homology; stability theorem