

Departamento de Matemática

Centro de Matemática e Aplicações

Seminar/Talk Lie brackets on affine spaces.

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Abstract: This talk aims to give brief information on a Lie bracket on affine space, known as a Lie affgebra, which was introduced by K. Grabowska, J. Grabowski, and P. Urbański in 2003. Lie affgebras have been investigated in several works by Tomasz Brzeziński and his collaborators. In particular, Lie affgebra structures on various classes of affine spaces of matrices have been studied. It is shown that any Lie affgebra is isomorphic to a Lie algebra equipped with an additional element and a specific generalized derivation. Furthermore, a close relationship between Lie affgebras and Lie algebras is established. We give Lie affgebra structures on lowdimensional Lie algebras.

- Data: 04 Abril 2025, 15h00min;
- Local: Sala de Reuniões, Departamento de Matemática, UBI.



