Some recent results on evolution algebras

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Abstract. The aim of this talk is to discuss some recent results on evolution algebras. We will focus on two related directions. On the one hand, we will consider polynomial identities for evolution algebras through a combinatorial approach based on rooted binary trees. On the other hand, we will discuss how finite-dimensional commutative algebras can be embedded into evolution algebras. Finally, we will mention some questions motivated by these problems.

This talk is based on joint work with the authors cited in the references.

References

[1] Y. Cabrera Casado, A. Fernández Ouaridi, D. Martín Barquero, and C. Martín González, *Polynomial identities in evolution algebras*, preprint, in preparation.

[2] C. Costoya, A. Fernández Ouaridi, and A. Viruel, *Commutative algebras are ideals of evolution algebras*, preprint, in preparation.