

On the Plotkin problems of Ind scheme automorphisms

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Boris Plotkin conjectured that every automorphism of endomorphisms group $s \operatorname{End}(k[x_1, \dots, x_n]), \operatorname{End}(k\langle x_1, \dots, x_n \rangle)$ are (quasi) inner . i.e conjugation by automorphism may be together with mirror mapping conjugation. There are also problems on Ind-schemes automorphisms which were resolved for $\operatorname{Aut}(k[x_1, \dots, x_n]), \operatorname{Aut}(k\langle x_1, \dots, x_n \rangle)$ by author and A. Elishev. We discourse these conjectures and endomorphisms of semigroups $\operatorname{End}(k[x_1, \dots, x_n]), \operatorname{End}(k\langle x_1, \dots, x_n \rangle)$.

The talk is dedicated to the memory of Boris and Zhenya Plotkin.

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