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MODEL THEORY OF GROUP SCHEME ACTIONS ON FIELDS

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Abstract

This is joint work with Daniel Hoffmann. I will discuss model theory of fields with actions of a fixed finite group scheme. We showed the existence and simplicity of a model companion of the theory of such actions, which generalized our previous results about truncated iterative Hasse-Schmidt derivations and about actions of finite groups. As an application of our methods, we obtained a new model complete theory of actions of a finite group on fields of finite imperfection degree.

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