

# Do polynomial identities distinguish simple algebras?

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An interesting question is if polynomial identities can uniquely determine an algebra. Some works were dedicated to studying this, and it turns out that the best-known theorem is due to Razmyslov. In parallel, the graded version of the problem also attracted the attention of some researchers.

In this seminar, we discuss the question and present the main results obtained until now. We show that the graded version is a particular case of Razmyslov's theory. This is a joint work with Professor Yuri Bahturin (Memorial University of Newfoundland).