

Some problems in ring theory

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Abstract

In this talk I hope to present some problems in ring theory, involving algebras over fields, matrix rings, and non-commutative Gröbner bases theory that I personally got interested in during my years as a graduate student, a kind of “Geir’s Jugendtraum”. These problems are still open and many are very concrete. The goal is to revive an interest in them, in particular among some of our graduate students who are looking for something specific to think about.

Keywords: rings, algebras, matrices, ascending chain condition (ACC).