

**Are polynomial rings over nil rings Brown-McCoy radical?**  
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It is an open problem whether polynomial rings in commuting or non-commuting indeterminates over nil rings are Brown-McCoy radical (i.e., they cannot be homomorphically mapped onto unital rings). At the talk several results concerning this problem will be discussed. In particular a sketch of a positive solution of the problem for algebras of positive characteristic and two commuting indeterminates will be presented.