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Louis H Rowen* (rowen@math.biu.ac.il). *Representability of relatively free affine algebras over an arbitrary field.*

(Joint work with Alexei Belov and Uzi Vishne)

This is part of the revisionist program in PI-theory. In an earlier series of papers, we used full quivers as tools in describing PI-varieties of algebras and providing a complete proof of Belov's solution of Specht's problem for affine algebras over an arbitrary Noetherian ring. In this talk, based on that work, we sketch the full proof of the Kemer-Belov theorem that relatively free affine PI-algebras over an arbitrary field are representable, emphasizing "hiking" to guarantee that nonzero substitutions of polynomials are in the appropriate Wedderburn components. (Received December 09, 2017)