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Adrian Jenkins* (ajenkins@iastate.edu), Department of Mathematics, Iowa State University, 378 Cardwell Hall, Ames, IA 50010. *Comparisons and contrasts between non-archimedean dynamics and complex dynamics.*

Over the past few years, in joint work with Steven Spallone of TIFR, we have considered the theory of locally analytic dynamical systems in the non-archimedean setting, and in particular, the local conjugacy classes of mappings tangent to the identity in one variable, or other resonant cases in several variables. In the complex setting, such problems have been studied for well over a century.

This talk will discuss some of the contrasts and comparisons of the theories, with a focus on our own work in the field. Also, there will be a discussion of current problems on which we are working. (Received January 29, 2012)