Thomas Silverman* (tjsilver@umich.edu). *A non-archimedean \( \lambda \)-lemma and \( J \)-stability.*

In a celebrated paper published in 1983, R. Mañé, P. Sad, and D. Sullivan prove a result about holomorphic families of injections called the \( \lambda \)-Lemma with impressive applications to the complex dynamics of families of one-variable rational functions. In this talk, I will discuss a framework for studying the dynamics of families of one-variable rational functions parametrized by Berkovich spaces over a complete non-archimedean field and a suitable non-archimedean analogue of the \( \lambda \)-Lemma. I will also explain how this can be used to prove the equivalence of two stability conditions in non-archimedean dynamics. (Received August 19, 2019)