1151-37-245   **Thomas Silverman*** (`tjsilver@umich.edu`). *A non-archimedean λ-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 λ-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 λ-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)