

1154-37-1539 **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 the dynamics of families of one-variable rational functions parametrized by Berkovich spaces over a complete non-archimedean field, including 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 September 16, 2019)