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**Leonard John Carapezza\*** (carapezz@math.utah.edu). *Unique Equilibrium States and Equilibrium States with Positive Entropy.*

It was proved by Bowen that for expansive homeomorphisms with the specification property, a certain class of continuous potential functions all have unique equilibrium states. Since then it has been shown that there are cases for which these hypotheses can be weakened and the conclusion still holds. The question of when these equilibrium states have strictly positive entropy has also been studied. In this talk I will summarize some known results and the methods by which they were obtained, as well as discuss work initiated at the MRC towards results of this kind for a particular class of piecewise monotone interval maps. (Received September 23, 2017)