1100-15-23 Masaki Ogura* (masaki.ogura@ttu.edu), Texas Tech University, Department of Mathematics and Statistics, Broadway and Boston, Lubbock, TX 79409, and Clyde F Martin (clyde.f.martin@ttu.edu). A Characterization of Joint Spectral Radius with the p-radius of Distributions.

In this talk we show a novel characterization of joint spectral radius, which is an extension of the spectral radius of a single matrix to a set of matrices. We show that the joint spectral radius of a set equals the limit of the so-called *p*-radius of an associated probability distribution when p tends to ∞ under mild assumptions on the distribution. The obtained formula extends a characterization of the joint spectral radius of a finite set of matrices in the literature by allowing the set to have infinitely many matrices. (Received January 13, 2014)