## 1044-54-243 Chuan Liu\* (liuc1@ohio.edu), 1425 Newark Rd., Zanesville, OH 43701. Spaces with $\sigma$ -point-discrete weak bases.

In this talk,  $\sigma$ -point-discrete weak bases are considered. Three necessary conditions that individually ensure that a space with a  $\sigma$ -point-discrete weak base has a  $\sigma$ -compact-finite weak base are given. We show that  $\sigma$ -compact-finite weak bases are preserved by closed sequence-covering maps. It is shown that a space X is metrizable if and only if  $X^{\omega}$  has a  $\sigma$ -point-discrete weak base. Conditions are given to ensure when a paratopological group with  $\sigma$ -point-discrete weak base is metrizable. Several questions are posed. This is joint work with Chuan Liu, Shou Lin, and Lew Ludwig. (Received September 02, 2008)