1151-52-236Michael Gene Dobbins* (mdobbins@binghamton.edu), 4400 Vestal Parkway East, Vestal, NY13850. Grassmannians and Pseudosphere Arrangements in Rank 3.

In this talk I will present a metric space of pseudosphere arrangements, as in the topological representation theorem, where each pseudosphere is assigned a weight. This extends spaces of vector configurations to spaces with nicer combinatorial and topological properties. In rank 3 these spaces, modulo O(3), are homotopy equivalent to the corresponding Grassmannians, and the subspaces representing a fixed oriented matroid are contractible. (Received August 19, 2019)