1125-57-1459Radmila Sazdanovic* (rsazdan@ncsu.edu), Department of Mathematics NCSU, Box 8205,
Raleigh, NC 27695, and Andrew Cooper and Vin de Silva. Invariants of Simplicial Complexes
from Configuration Spaces. Preliminary report.

The configuration space of n distinct points in a manifold X is a well-studied object with lots of applications. Eastwood and Huggett define graph configuration spaces M(G, X) by allowing vertices connected by an edge in G to occupy the same point in X. Our work generalizes this construction from graphs to finite simplicial complexes to obtain the space M(S, X). In this talk we will discuss properties of homology of M(S, X) and the polynomial invariant of simplical complexes arising as its Euler characteristic. (Received September 16, 2016)