Patricia Hersh* (plhersh@ncsu.edu) and Karola Meszaros. Posets arising as 1-skeleta of (simple) polytopes.

We will discuss the topological structure of posets whose Hasse diagrams may be regarded as 1-skeleta of simple polytopes. Familiar examples include the weak Bruhat order and the Tamari lattice, viewed as 1-skeleta of the permutahedron and associahedron, respectively. It seems natural now to ask whether MV polytopes could also be put into this framework. Background in this part of topological combinatorics will not be assumed. (Received January 26, 2014)