1018-05-45 Alexander Postnikov*, Department of Mathematics, MIT, 2-389, 77 Massachussetts Ave, Cambridge, MA 02139. *Permutohedra reshaped.*

We discuss various generalizations of the associahedron and the permutohedron that recently came up in several different areas. We calculate volumes and count numbers of lattice points, numbers of vertices, and f-vectors of these polytopes. (Received February 16, 2006)