1037-05-96 Sangwook Kim\* (skim22@gmu.edu), Department of Mathematical Sciences, George Mason University, 4400 University drive, Fairfax, VA 22030. Topology of real arrangements corresponding to shellable complexes.

We prove that if a simplicial complex is shellable, then the intersection lattices for the corresponding real diagonal arrangement and real coordinate arrangement are homotopy equivalent to wedges of spheres, respectively. Furthermore, we describe precisely the spheres in the wedges, based on the data of shelling. Also, we give some examples of real diagonal arrangements whose complements are  $K(\pi, 1)$ , coming from rank 3 matroids. (Received January 25, 2008)