1107-05-398 **Steven Schluchter*** (sschluch@gmu.edu), Department of Mathematical Sciences, Geroge Mason University, 4400 University Drive, MS:3F2, Fairfax, VA 22030, and Justin Z Schroeder (jzschroeder@gmail.com), Department of Mathematical Sciences, George Mason University, 4400 University Drive, MS:3F2, 22030. *Self-dual embeddings of* K_{4m,4n} in pseudosurfaces. Preliminary report.

A direct construction of a self-dual embedding of the complete bipartite graph $K_{4m,4n}$ in an orientable pseudosurface is given for an infinite number of values of m and n. These embeddings are shown to maximize the number of umbrellas at each vertex. A surgery of Edmonds is then applied to build self-dual embeddings of $K_{4m,4n}$ in nonorientable pseudosurfaces with fewer umbrellas. If time permits, a new and relevant surgery will be described. (Received January 19, 2015)