1046-52-608 **Zsolt Langi*** (zlangi@math.bme.hu), Department of Geometry, Budapest University of Technology, Egry Jozsef u. 1., Budapest, 1111, Hungary. *On the Hadwiger numbers of topological disks.*

The Hadwiger number $H(S)$ of a topological disk S in the plane is the maximum number of pairwise nonoverlapping translates of S that touch S. It is well known that if S is convex, then $H(S) \leq 8$. A. Bezdek, K. and W. Kuperberg conjectured that the same upper bound holds for the Hadwiger numbers of starlike disks. A. Bezdek showed that $H(S) \leq 75$ for any starlike disk S.

Another question of A. Bezdek and Pach was whether there is a universal upper bound for the Hadwiger numbers of topological disks in general. A recent result of Cheong and Lee shows that the answer for this question is no.

In this talk, I present recent results about the Hadwiger numbers of topological disks and, in particular, about those of starlike disks. (Received September 09, 2008)