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Homeomorphism groups of non-compact surfaces

Abstract. It is shown that for any connected non-compact surface X the connected component $H_0(X)$ of the homeomorphism group $H(X)$ of X , endowed with the Whitney (or graph) topology, is homeomorphic to $R^\infty \times l_2$.

This is joint work with K. Mine, K. Sakai, and T.Yagasaki.