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Peter N Wong* (pwong@bates.edu), Department of Mathematics, Bates College, 3 Andrews Road, Lewiston, ME 04240. *Fundamental groups in fixed point theory*. Preliminary report.

The Nielsen number $N(f)$ of a selfmap f on a finite complex is a lower bound for the minimum number of fixed points of maps in the homotopy class of f . The computation of $N(f)$ is very difficult in general. For a class of spaces, this number is either zero or equal to the Reidemeister number $R(f)$, which is simply the number of twisted conjugacy classes in the fundamental group. In this talk, I will outline some recent work concerning the finiteness of the Reidemeister number and other group theoretic questions related to Nielsen fixed point theory. (Received February 10, 2006)