

1129-22-2

Jeremy Kahn* (jeremy_kahn@brown.edu), Brown University, Providence, RI. *Applications and frontiers in surface subgroups.*

In 2009 V. Markovic and the speaker proved that there are ubiquitous nearly geodesic subgroups in the fundamental groups of closed hyperbolic 3-manifolds. Since then there have been many attempts—some successful—to extend these results to other settings, including lattices in other Lie groups, nonuniform lattices, δ -hyperbolic groups, and the mapping class group. After a review of the fundamental principles and methods, I will try to describe some of the successes, some of the difficulties, and some of the applications of these kinds of results. (Received March 16, 2016)