1067-20-1709
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W. Green Street, Urbana, IL 61801. Generic Properties of Groups and Surface Subgroups. Preliminary report.

An open question is whether or not one-ended hyperbolic groups contain fundamental groups of compact surfaces as subgroups. Schupp proved that if one fixes a genus  $g_0$ , then generically, groups do not contain a surface subgroup of genus less than or equal to  $g_0$ . We survey what is currently known about the general question. (Received September 22, 2010)