1046-03-1669 **Inessa Epstein***, Mathematics 253-37, Caltech, Pasadena, CA 91125, and **Greg Hjorth**.
Equivalence relations with infinitely many ends and percolation.

We analyze countable Borel equivalence relations with many ends and the actions of groups with many ends. As a consequence of this work we obtain a result regarding the percolation on non-amenable groups that have infinite normal amenable subgroups. (Received September 16, 2008)