

Dynamical Systems and Their Applications
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ABSOLUTELY NON FREE ACTIONS, RANDOM SUBGROUPS, AND FACTOR REPRESENTATIONS

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I will present results of several investigations, performed in collaboration with M. Benli, L. Bowen, A. Dudko, R. Kravchenko and T. Nagnibeda. These results deal with invariant and characteristic random subgroups in some groups of geometric origin, including hyperbolic groups, mapping class groups, groups of intermediate growth and branch groups. During the talk the role of totally non free actions will be explained. This will be used to explain why branch groups have infinitely many factor representations of type II_1 .