1063-46-183   **Hiroki Sako*** (`hiroki@ms.u-tokyo.ac.jp`), Komaba 3-8-1, Meguro, Tokyo 191-0055, Japan.
Stone–Cech boundaries of discrete groups and measure equivalence theory.

We get three types of results on measure equivalence theory: direct product groups of Ozawa's class S groups, wreath product groups and amalgamated free products. We prove measure equivalence factorization results on direct product groups of Ozawa's class S groups. As consequences, Monod–Shalom type orbit equivalence rigidity theorems follow. We prove that if two wreath product groups $A \wr G$, $B \wr \Gamma$ of non-amenable exact direct product groups G, Γ with amenable bases A, B are measure equivalent, then G and Γ are measure equivalent. Rigidity results on amalgamated free products of non-amenable exact direct product groups are also shown. We use the notion of biexactness of countable groups. We also prove that being in Ozawa's class S of countable discrete groups is invariant under measure equivalence. (Received August 16, 2010)