Gerhard Rosenberger\* (gerhard.rosenberger@math.uni-hamburg.de), Fachbereich Mathematik, University of Hamburg, Bundesstrasse 55, 20146 Hamburg, Germany, and Laura Ciobanu and Benjamin Fine. An Extension of a Theorem by B. Baumslag.

Benjamin Baumslag proved that being fully residually free is equivalent to being residually free and commutative transitive. Gaglione and Spellman and independently Remeslennikov showed that this is also equivalent to being universally free. We extend this to classes of groups for which the analogous statements hold. (Received July 27, 2012)