Margaret H. Dean* (mdean@bmcc.cuny.edu), BMCC Mathematics Department, 199 Chambers Street, N 524, New York, NY 10007, Marcos Zyman (mzyman@bmcc.cuny.edu), BMCC Mathematics Department, 199 Chambers St., N 528, New York, NY 10007, and Katalin A. Bencsáth (katalin.bencsath@manhattan.edu), Department of Mathematics, Manhattan College, Riverdale, NY 10471. IA-automorphisms of center by metabelian groups. Preliminary report.

The IA-group of $G$ is a subgroup of $AutG$ consisting of those automorphisms that induce the identity modulo the derived group. We study the structure of the IA-automorphisms of certain groups which are metabelian extensions of their centers. We also discuss the existence of a finitely generated center by metabelian group whose IA-group is not finitely generated. Wreath products play a major role in this discussion. (Received September 16, 2008)