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**G. Arzhantseva** and **J.-F. Lafont\*** (jlafont@math.ohio-state.edu). *Isomorphism vs. commensurability for certain classes of groups.*

We will give constructions for two classes of groups. Within the first class of groups, the isomorphism problem is solvable, but the commensurability problem is unsolvable. Within the second class of groups, the commensurability problem is solvable, but the isomorphism problem is unsolvable. Various open problems will be suggested. This is joint work with G. Arzhantseva. (Received June 16, 2011)