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Yago Antolin* (yago.antolin.pichel@vanderbilt.edu), Department of Mathematics, 1326 Stevenson Center, Vanderbilt University, Nashville, TN 37240. *Residual finiteness of some outer automorphism groups.*

In this talk I will present my work together with Minasyan and Sisto on commensurating endomorphism of acylindrically hyperbolic groups. We show that any commensurating endomorphism of an acylindrically hyperbolic groups is inner modulo a small perturbation. We use this result to prove that the outer automorphism group of a virtually special group or the fundamental group of some compact 3-manifold is residually finite. (Received January 13, 2014)