



GEOMETRIC AND ASYMPTOTIC GROUP THEORY  
WITH APPLICATIONS  
2016

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Inna Bumagin  
Carleton University

*Linear word problem and quadratic conjugacy problem*

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*Abstract:*

(Gromov) hyperbolic groups have the algorithmic properties stated in the title. We show that these results generalize to toral relatively hyperbolic groups. This follows from more general statements which improve the previously known estimates for (torsion-free) relatively hyperbolic groups. This is joint work with Ming Ming Zhang.