

Geometric Group Theory/Théorie géométrique des groupes

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Equations with parameters in free and fully residually free groups

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CANADA

Abstract

Solving equations in free groups played one of the key parts in our joint work with *A. Miasnikov* solution of the Tarski problems. It seems, a new structural theory of solutions of equations over groups is taking its shape. I am going to discuss some developments in this area. In particular, I will describe algebraic, transcendental and reducing solutions of equations and show several structural and finiteness results.