THE TRUE PROSOLUBLE COMPLETION OF A GROUP EXAMPLES AND OPEN PROBLEMS

Goulnara Arzhantseva, Pierre de la Harpe, and Delaram Kahrobaei

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Abstract. The *true prosoluble completion* $\mathcal{PS}(\Gamma)$ of a group Γ is the inverse limit of the projective system of soluble quotients of Γ. Our purpose is to describe examples and to point out some natural open problems. We discuss a question of Grothendieck for profinite completions and its analogue for true prosoluble and true pronilpotent completions.

Goulnara Arzhantseva and Pierre de la Harpe, Section de Mathématiques, Université de Genève, C.P. 64, CH-1211 Genève 4, Suisse.
E-mail: Goulnara.Arjantseva@math.unige.ch, Pierre.delaHarpe@math.unige.ch

Delaram Kahrobaei, Mathematical Institute (Room 315), University of St Andrews, North Haugh, St Andrews, Fife, KY16 9SS, Scotland.
E-mail: delaram.kahrobaei@st-andrews.ac.uk

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