

“Group Theory International” Online Seminar

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“Logarithmic space complexity and the conjugacy problem”

Thursday, October 31, noon (New York Time)

Abstract:

With the prevalence of vast amounts of data, space complexity has become a major consideration in computations. Every problem which can be decided in logarithmic space can be decided in polynomial time, but the converse is not known to hold. We consider the complexity of the conjugacy problem in several classes of groups. In particular, we show that the conjugacy problem in free solvable groups, wreath products of groups and Grigorchuk groups is log-space decidable..

Next presentation: **Nov 14, Pascal Weil (Université Bordeaux I, France)**