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Inverting the Square systems is exponential

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Abstract: In this paper, we prove that the degree of regularity of the family of Square systems, an HFE type of systems, over a prime finite field of odd characteristics q is exactly q, and therefore prove that vskip. $1in begin{intermative} itemize \\ itemize \\ square systems algebraically is exponential, when <math>q=O(n)$, where n is the number of variables of the system. $end{itemize}$

Category / Keywords: Square, HFE, degree of regularity

Date: received 28 May 2011, last revised 30 Sep 2011

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Available formats: PDF | BibTeX Citation

Version: 20110930:233530 (All versions of this report)

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