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Alex Iosevich* (iosevich@math.missouri.edu), 5008 Forum Blvd., Columbia, MO 65203, and
Doowon Koh and **Jozsef Solymosi**. *Kloosterman sums, distance sets and sum-product theorems
in combinatorics.*

We shall describe application of Kloosterman sums to the Erdos type distance problem in vector spaces over finite fields.

We shall also apply the resulting technology to sum-product estimates in combinatorics. (Received August 15, 2006)