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Jean Bourgain and **Alex Kontorovich***, 3-120 Math Tower, Stony Brook University, Stony Brook, NY 11794. *On Zaremba's Conjecture.*

Zaremba's 1972 conjecture states that for every integer q , there is some coprime p , such that the rational p/q has continued fraction expansion with uniformly bounded convergents. It has applications to the theory of good lattice points in numerical integration, and the linear congruential method for pseudo-random number generation. We will present recent progress on this problem. (Received January 31, 2011)