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Alireza Salehi Golesefidy* (asalehi@math.princeton.edu), Fine hall, Washington road, Princeton, NJ 08544, and **Peter Sarnak** and **Peter Varju**. *Affine sieve and expansion in perfect groups.*

In this talk, I report on the necessary and sufficient condition for a finitely generated subgroup of $SL(n, \mathbb{Q})$ modulo square free integers give a family of expanders (Joint with Varju). Then I say how one can use such a result to get a fundamental affine sieve theorem (Joint with Sarnak). (Received September 13, 2010)