

Exercise Set 13

Exercise 13.1. What non-approximability result for MAXCLIQUE can be obtained by rerunning the $(\log(n), 1)$ -restricted verifier $\mathcal{O}(\log n)$ times, i.e. using no pseudo-random, but $\mathcal{O}(\log^2 n)$ truly random bits.

Exercise 13.2. Show that the PCP-Theorem implies that the average number of queries needed by a $(\log(n), 1)$ -restricted verifier can be made arbitrarily small.

We will talk about this sheet in the tutorial on Monday, July 8.