MICHAEL RUBINSTEIN, University of Waterloo, 200 University Ave. W, Waterloo, ON, N2L 3G1 *Hide and Seek—a naive factoring algorithm*

I present a factoring algorithm that factors N = UV provably in $O(N^{1/3+\epsilon})$ time. I also discuss the potential for improving this to a sub-exponential algorithm. Along the way, I consider the distribution of solutions (x, y) to $xy = N \mod a$.