962-11-1240 Banks William (banksw@showme.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211, Daniel B Lieman* (dlieman@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 01803, and Igor Shparlinski, Department of Computing, DICS, Macquarie University, 2109 North Ryde, NSW, Australia. Analytic Number Theory and Cryptography.

This talk will cover recent applications of analytic number theory to the construction of identification and authentication schemes in cryptography. The schemes constructed will be exceptionally efficient, among the fastest currently known. No prior knowledge of cryptography will be assumed. (Received October 03, 2000)