1046-68-860   **Jonathan Katz*** (`jkatz@cs.umd.edu`), Department of Computer Science, University of Maryland, A.V. Williams Building, College Park, MD 20742. *Public-Key Cryptography from a (Theoretical) Cryptographer's Perspective.*

Mathematicians and computer scientists often approach the field of cryptography very differently. The purpose of this talk is to introduce mathematicians to a theoretical cryptographer's view of cryptography, and specifically public-key encryption. I will survey the basic definitions and constructions, and highlight recent advances in the field and prominent open questions. (Received September 12, 2008)