1106-68-1641 **Bren Cavallo***, Mathematics Department, CUNY Graduate Center, New York, NY 10016, and **Delaram Kahrobaei** and **Vladimir Shpilrain**. *Decoy-Based Secure Delegation of Computation, With Application to RSA.*

In this talk, I will introduce a method of secure delegation of computation where the security is not based on any computational assumptions, but rather on numerous "decoys". As an application, this method can be used by a computationally weak party to delegate the exponentiation that takes place in the RSA protocol. This is joint work with Delaram Kahrobaei and Vladimir Shpilrain. (Received September 14, 2014)