

1056-12-1621 **Ding Jintai*** (ding@math.uc.edu), Dept. Math. Sci., ML 0025, Cincinnati, OH 45242. *Solving multivariate polynomial equations over finite fields*. Preliminary report.

Solving multivariate polynomials over finite fields becomes increasingly important in many areas including cryptography. In this talk, we will present some of the new progresses in the area of polynomial solving in the last few years and some of the critical challenges in terms of its applications in cryptography. (Received September 22, 2009)