1056-94-1122 **Lei Hu*** (hu@is.ac.cn), 19A, Yuquan Road, Beijing, 100049, Peoples Rep of China. *Analysis of A Multivariate Internal Perturbation Scheme.*

We present a differential analysis to a middle-field type multivariate internal perturbation scheme. The main point is to reduce the attack against the scheme to an attack on its perturbation-free variant using the property of differentials, and the latter scheme can be totally cracked by linearization equations. This is a joint work with Weiwei Cao. (Received September 21, 2009)