1043-13-164 **Wenhua Zhao*** (wzhao@ilstu.edu), Department of Mathematics, Illinois State University, Normal, IL 61761-4520. Some Open Problems Raised by the Jacobian Conjecture.

We will discuss some open problems raised by the Jacobian conjecture on differential operators, orthogonal polynomials and also some integral operators. In return, these open problems provide some new generalizations and reformulations for the Jacobian conjecture from several different points of views. (Received August 26, 2008)