1086-VO-2059 **Dilum De Silva\*** (dilum@ksu.edu), 1540 International Court, Apt #27, Manhattan, KS 66502, and Chris Pinner. Lind-Lehmer constant for groups of the form  $\mathbb{Z}_p^2$ .

We discuss Lind-Lehmer constant for groups of the form  $\mathbb{Z}_p^2$ , where p is a prime. We first show that we can obtain a nontrivial lower bound for the Lind-Lehmer constant, specifically  $\frac{1}{p^2} \log M_2$  for  $p \geq 3$ , where  $M_2 := \min\{a^p \mod p^2 \mid 2 \leq a \leq p-1\}$ . Then we construct an explicit polynomial that attains this minimal value. (Received September 26, 2012)