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Hui June Zhu* (hjzhu@math.buffalo.edu), Department of Mathematics, SUNY at Buffalo, BUFFALO, NY 14260. *Newton Slopes for Artin-Schreier-Witt Tower in two variables.*

We compute the generic p -adic Newton slopes of L -functions associate to characters χ of Galois group of Artin-Schreier-Witt tower of a family of polynomials f in two variables of degree d_1 in x_1 and d_2 in x_2 . For a generic such f for p large enough we prove that $L^*(\chi, s)$ of $f \bmod p$ with respect to χ is independent of the character χ or f . (Received August 21, 2016)