1086-11-2342 **Suresh Venapally*** (suresh@mathcs.emory.edu), 400 Dowman dr, Math & Sci, Atlanta, GA 30322. *Degree three cohomology of function field of surfaces.*

Let F be the function field of a surface X over a finite field. Let l be a prime not equal to the characteristic of F. Suppose that F contains a primitive l^{th} root of unity. We prove a certain local-global principle for elements of $H^3(F, \mu_l)$ in terms of symbols in $H^2(F, \mu_l)$ with respect to the discrete valuations of F. We use this to prove that every element in $H^3(F, \mu_l)$ is a symbol. The local-global principle also leads to the vanishing of certain unramified degree 3 cohomology groups of conic fibrations over X. This has implications towards the validity of the conjecture that Brauer-Manin obstruction is the only obstruction to the existence of zero-cycles of degree one for certain surfaces over global fields of positive characteristic. (Received September 25, 2012)