

1079-14-430

Tony Shaska* (shaska@oakland.edu), Rochester, MI 48309. *Fundamental half-integer thetanulls for cyclic Riemann surfaces.*

We will discuss some new development of determining fundamental theta functions for genus g compact Riemann surfaces. Some techniques, using Gopel groups, have been known to XIX century mathematicians. However, these techniques give more theta functions than the moduli dimension. We will show how to pick the exact number of thetanulls for some small $g > 2$. (Received January 18, 2012)