

1137-14-230

**James S. Wolper\*** (wolpjame@isu.edu), Idaho State University, 921 S. 8th Ave., MS 8085, Pocatello, ID 83209. *Periods of an Interesting Family of Curves with Automorphisms*. Preliminary report.

The Information-Theoretic Schottky Problem begins with the observation that the Jacobian of a complex algebraic curve has “too many” periods: the period matrix grows with the square of the genus, while the dimension of the moduli space grows linearly. This has expanded to include trying to derive properties of Abelian Varieties from the distribution of the periods. This talk will explore properties of the periods of an interesting family of three-sheeted covers of the Riemann Sphere. These curves have Jacobians that split and their period distribution is similar to that of hyperelliptic curves, which is not always the case with curves with automorphisms. (Received February 04, 2018)