

1014-62-1567

**Thomas R Hagedorn\*** ([hagedorn@tcnj.edu](mailto:hagedorn@tcnj.edu)), Dept. of Mathematics and Statistics, The College of New Jersey, P.O. Box 7718, Ewing, NJ 08618. *Computational Support of a Conjecture on Phylogenetic Invariants for the General Markov Model for  $k > 2$  states*. Preliminary report.

The author will present computational evidence in support of a conjecture on the phylogenetic invariants for the general Markov model for  $k > 2$  states. Allman and Rhodes have determined the generators of the phylogenetic ideal for a tree with  $n$  taxa and  $k=2$  states. They have also conjectured how to find the phylogenetic ideal for a tree of  $n$  taxa when  $k > 2$ , along with some evidence for the conjecture. The talk will discuss additional computational evidence for this conjecture. (Received September 28, 2005)