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Brent R Davis* (davisb@math.colostate.edu) and **Joseph Rusinko** (rusinkoj@winthrop.edu). *Numerical methods to analyze phylogenetic tree models*. Preliminary report.

Computational Phylogenetics studies computational methods to analyze and construct phylogenetic tree models. In this talk, we discuss distance-based criteria to accept or reject topologically equivalent evolutionary tree models from prescribed data. Our findings were largely based on analyzing data generated from the software package Paramotopy. Throughout, we highlight the four quartet evolutionary tree model. (Received September 03, 2014)