



UNM-PNM STATEWIDE MATHEMATICS CONTEST LECTURE



Mathematics and Phylogenetics

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Phylogenetics is the field of biology concerned with determining the evolutionary relationship between species. Are humans closest relatives among the great apes gorillas or chimpanzees? When did the human species arise on earth? Cutting-edge research by biologists, mathematicians, statisticians, and computer scientists seeks to answer these and related questions.

This talk will give a short overview to the field of mathematical phylogenetics, and describe how one can mathematically model the evolution of present-day DNA sequences from a common ancestor.

Dr. Elizabeth Allman is Professor of Mathematics at the University of Alaska Fairbanks, a Senior Research Associate at the Institute for Arctic Biology and a Fellow of the American Mathematical Society. Her interests include Biomathematics and Algebraic Statistics, but a common theme throughout is her use of Algebra.

Public Lecture in Science and Math Learning Center,
Saturday, February 1, 2014, Room 102 at 10am

Refreshments served before lecture. All are welcome.

<http://mathcontest.unm.edu/>