1046-L1-1993   **Doug Ensley*** (`deensley@ship.edu`). *Leapin' lizards! It's mathematics!*
The Leapin' Lizards puzzle by Binary Arts is a peg solitaire game consisting of five chameleons that must all make their way home from an initially scrambled state among six available pegs. The catch is that they must follow pathways (read *graphs*, mathematicians) defined by cards placed over the game board. The puzzle has the added benefit of being adaptable to a "paper and pencil" version for classroom use, no doubt to the chagrin of Binary Arts. In this talk we will discuss mathematical models for this puzzle as well as criteria by which the manufacturer has rated the difficulty of each card. (Received September 16, 2008)