

1154-M5-1054      **Robert W Vallin\*** ([robert.vallin@lamar.edu](mailto:robert.vallin@lamar.edu)), Department of Mathematics, Lamar University, P.O. Box 10047, Beaumont, TX 77710. *Waiting for Penney's to Turn Up.*

Penney's Game, a coin-flipping example of a non-transitive game, has a spinoff question: If a person chooses a three-outcome sequence of coin flips (e.g. THT) and an impartial judge flips a coin until the chosen sequence appears, what is the expected number of tosses (wait time)? The answer is known for a fair coin. In this talk we look at what happens if the coin is not fair. (Received September 12, 2019)