## MARK KEMPTON, Brigham Young University

Non-backtracking random walks: mixing rate, Kemeny's constant, and related parameters

We will discuss non-backtracking random walks on graphs and spectral properties of matrices associated with them. We will see how many parameters and ideas coming from the theory of random walks on graphs can be modified by a non-backtracking random walk. We will compare these non-backtracking parameters with the usual simple random walk analogues.