1146-05-222   **Jane Breen*** (`breenj@iastate.edu`). *Kemeny's constant and random walks on graphs.* Preliminary report.

Kemeny's constant is an interesting and useful quantifier of how well-connected the states of a Markov chain are. By considering the random walk on a simple, undirected graph, we can regard the value of Kemeny's constant for this Markov chain as a graph parameter with a concrete interpretation in terms of the expected length of a random trip in the graph. This talk will predominantly be a survey of recent results in this area, along with some open problems. (Received January 22, 2019)