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Mark Kempton* (mkempton@cmsa.fas.harvard.edu). *Non-backtracking random walks and graph clustering*. Preliminary report.

Recently, operators related to non-backtracking random walks on graphs have been used to give improved spectral algorithms for graph clustering. These operators have interesting spectra that relate to the mixing of non-backtracking random walks. I will discuss spectral properties of non-backtracking random walks, and related results. (Received February 27, 2017)