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Eyal Lubetzky* (eyal@courant.nyu.edu), Courant Institute(NYU). *Random walks on the random graph*. Preliminary report.

We will discuss the behavior of the random walk on two random graph models: on one hand the giant component of the supercritical Erdős-Rényi random graph with constant average degree. In the former case it is known that the walk mixes in logarithmic time and exhibits the cutoff phenomenon. In the latter case, while starting from the worst trap delays mixing and precludes cutoff, it turns out that starting from a fixed vertex induces the rapid mixing behavior of the regular case.

Joint work with N. Berestycki, Y. Peres and A. Sly. (Received April 17, 2014)