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**Elena Kosygina\*** ([elena.kosygina@baruch.cuny.edu](mailto:elena.kosygina@baruch.cuny.edu)). *Excited random walks, or the "cookie" phenomenon*. Preliminary report.

Excited random walks (ERWs), a.k.a. cookie random walks, are a large class of non-markovian random walks, for which the transition probabilities at a given time and location of the walker may depend on the prior history as well as on a random environment. The first ERW model was introduced in 2003 by Itai Benjamini and David B. Wilson, and since then ERWs were studied by many authors.

The talk will describe some of the ERW models and concentrate on open problems concerning ERWs and closely related processes. It is partially based on the joint work with Martin P.W. Zerner (University of Tuebingen, Germany). (Received January 23, 2014)