

1040-05-34

**Bruce Reed\*** ([breed@cs.mcgill.ca](mailto:breed@cs.mcgill.ca)). *The Diameter of a random graph.*

We discuss the diameter of  $G_{n,p}$  when the average degree  $d = p(n - 1)$  goes to infinity with  $n$ . We prove, amongst other things, that the diameter is concentrated on two values. This extends earlier work due to Bollobas, and to Chung and Liu. (Received January 8, 2008)