## Hamilton cycles in random subgraphs of Dirac graphs

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## Abstract

Given a graph  $\Gamma = (V, E)$  on n vertices, we define the Erdős-Rényi graph process with host  $\Gamma$  as the process obtained by revealing one edge of  $\Gamma$  at a time. We show that if  $\Gamma$  has minimum degree at least n/2 and every vertex set of size n/2 contains  $\Omega(n^2)$  edges, then with high probability the process becomes Hamiltonian exactly when its minimum degree becomes 2.