

1009-05-83

Tom Bohman and **Alan Frieze*** (alan@random.math.cmu.edu), Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213, and **Benny Sudakov**. *The game chromatic number of random graphs*.

Given k colours and a graph G , two players Maker and Breaker play alternately. Maker tries to properly colour the graph and Breaker tries to produce a proper partial colouring that cannot be extended to a full colouring. The game chromatic number of G is the minimum k for which Maker has a winning strategy. The parameter was introduced by Bodlaender. As the title indicates, we study the case where G is a random graph or a random bipartite graph. (Received August 07, 2005)