## Ramsey numbers of cycles in random graphs

## Pedro Araújo

We show that with high probability every 2-edge-colouring of a binomial random graph G(N, p) vertices contains a monochromatic  $C_n$ , as long as  $N > R(C_n) + C/p$  and  $p \ge C/n$ , for some C > 0, where  $R(C_n)$  is the Ramsey Number of  $C_n$ . This is sharp up to the value of C.