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**Hehui Wu\*** (noshell@hotmail.com) and **Bojan Mohar**. *Fractional chromatic number of random subgraphs*. Preliminary report.

For a graph  $G$ , let  $G_p$  denote the subgraph of  $G$ , in which each edge of  $G$  is in  $G_p$  with probability  $p$  independently at random. Boris Bulk asked whether there is a constant  $c > 0$  so that  $E(\chi(G_{1/2})) > c\chi(G)/\log \chi(G)$ . We give a answer for the fraction chromatic version of this: there exists a constant  $c \geq 1/8$ , such that  $E(\chi_f(G_{1/2})) > c\chi_f(G)/\log \chi_f(G)$ . (Received February 02, 2015)