## Séminaire de Probabilités et Statistiques

Mardi 25 avril à 14h00

Laboratoire Dieudonné Salle de Conférences

## Ross Kang

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## Resilience of the chromatic number

For p bounded away from 1 and  $np \to \infty$ , the asymptotic value of the chromatic number of the binomial random graph G(n, p) is resilient to the removal of a subgraph H with  $o(n \log(np))$  edges. This is best possible. Our work is counterpoint to work of Sudakov and Vu (2008) and Alon and Sudakov (2010), which was on chromatic resilience for G(n, p) subject to the addition, rather than removal, of edges. Joint work with Colin McDiarmid.