

Seminario de Probabilidades

Orador: Matthieu Jonckheere (Universidad de Buenos Aires – CONICET, Argentina)

Título: Discovering independent sets of maximum size in large sparse random graphs.

Resumen: Finding an independent set of maximum size is a NP-hard task on fixed graphs, and can take an exponentially long-time for optimal stochastic algorithms like Glauber dynamics with high activation rates. However, simple algorithms of polynomial complexity seem to perform well in some instances. We studied the large graph characteristics of two simple algorithms in terms of functional law of large numbers and large deviations. We are especially interested in characterizing a phase transition on the "graph landscape", implying that some simple algorithms are asymptotically optimal for low connectivity and suboptimal for high connectivity. Based on a joint works with David García-Zelada, Alon Nishry and Aron Wennman.

El enlace para conectarse al seminario es:

Unirse a la reunión Zoom

<https://reuna.zoom.us/j/84521834914?pwd=OTZ6Y0NWM3pYTGtTbEt3c0luTG96UT09>

ID de reunión: 845 2183 4914

Código de acceso: 997973

Miércoles 26 de mayo a las 16:15 horas.