
The Responding Driven Sampling process on Erdős-Rényi graph.

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Résumé

The Responding Driven Sampling (RDS) is an efficient method to sample from the hidden populations such as groups of drug users, the people with HIV, etc. The basic idea is to start with a convenient sample of participants, to ask them for referrals among their peers and then iterate this process. We will consider how the RDS proceeds on the sparse Erdős-Rényi graph when the number of people sampled is very large. Our main result is that the limit of the normalized process is a deterministic function, which is solution of an ODEs.

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