



## Próximo Seminario DMAT

**Jueves 30 de Mayo de 2019, 11:30 - 12:30**

**Sala de Seminarios, DEPARTAMENTO DE MATEMÁTICA**

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### **Graph Reconstruction in a Congested Clique**

The broadcast congested clique is a model of distributed computing where the nodes of a graph communicate in one synchronous round, broadcasting a message of small size visible to every other node. Research in this topic consists in the design of communication algorithms that compute a function of the graph, minimizing the message sizes.

The most difficult problem that one may attempt to solve in the broadcast congested clique model is the *reconstruction* problem, consisting in recovering all the edges of the input graph. In this talk we will show how to optimally solve this problem, when the input graph belongs to any hereditary class of graphs.