

Nicolas Saintier

title: Opinion formation model in the presence of stubborn people

abstract:

“In this talk I will present a detailed study of a model of formation of opinion that takes into account the power of conviction and the volatility of each agent in the population. It turns out that the stubborn agents, those who never change their opinion, impose their view to the rest of the population: the distribution of opinions of the non-stubborn agents converges to a Dirac mass centered at some opinion explicitly given in term of the opinion of the stubborn agents. We give an explicit rate of convergence using a Monge-Kantorovich distance. This derivation relies on the study of some nonlocal transport equation describing the asymptotic behavior of the density of opinion which is rigorously obtained as the grazing-limit of some Boltzmann-like equation.

This is a joint work with J.P.Pinasco (Univ. Buenos Aires - Argentina), M: Perez-Llanos (Univ. Buenos Aires - Argentina) and A. Silva (Univ. San Luis - Argentina)“