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Controlled interacting particle systems  

Abstract:  
We want to connect the optimal control of Vlasov-type PDEs with large systems of controlled interacting particles. The main difference towards the classical mean-field theory is the presence of a central planner influencing the dynamic. In order to rigorously develop a limit theory for this problem we employ the concept of Gamma-convergence. We finally discuss some connections with large deviations theory. The talk is mostly based on a joint paper with M. Fornasier, S. Lisini and G. Savare.

Referente: Stefano Bonaccorsi