



UNIVERSITÀ DEGLI STUDI
DI TRENTO

Dipartimento di Matematica



SEMINARI

Tuesday 10 April 2018 – at 11:45 am
Seminar Room “-1” – Department of Mathematics

Carlo Orrieri

(Università di Roma la Sapienza)

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.

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CONTATTI

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