

Annalisa CESARONI: Concentration phenomena for Mean Field Games systems with aggregation.

I will present some results about ergodic mean field game systems in the whole space  $\mathbb{R}^n$ , without periodicity conditions, describing equilibrium configurations for a population of rational individuals subjected to a coercive potential and an aggregation force. I will describe the variational framework for the analysis of these problems, and

discuss concentration phenomena arising in the semiclassical limit. These results are obtained in collaboration with Marco Cirant (Padova).