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# Learning and efficiency in mean field games theory

Pierre Cardaliaguet<sup>\*†1</sup>

<sup>1</sup>Paris Dauphine University – universit  Paris Dauphine, PSL Resarch University – France

## Abstract

Mean field games are optimal control problems in which infinitely many small controllers interact. The optimal solution in this setting is given by the notion of mean field game equilibrium. This talk will be a presentation of recent results on the questions of learning (why can we expect the equilibrium to form?) and of efficiency (in what extent is the equilibrium close to the social optimum?).

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\*Speaker

†Corresponding author: