Controlled mean-field flows with state constraints

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Résumé

In this talk, we focus on controlled stochastic flows with mean-field dynamics complying with (closed) state restrictions. This property known as (near)-viability is characterized using (quasi-)tangency methods. Law restrictions and mixed state-law restrictions are considered as is the interplay between the two classes. Besides the theoretical issues, specific applications to comparison in the convex order and/or normality will be presented (if the time allows it).

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