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*On the variational formulation of some stationary second order MFGs*

In this talk we consider an extension of the work by A. Mészáros and myself (15') dealing with variational stationary MFGs with density constraints. We consider general Hamiltonians, satisfying a suitable growth condition, and also rather general coupling terms. For systems with and without density constraint we establish the existence of solutions using a variational technique and we also improve some of our previous results. Numerical applications of this approach will also be discussed.