



From mean-field control to weak KAM dynamics

Programme (All lectures to be held in Room B3.02)

Monday (Bank holiday) 7th May

- 14.30-15.00 Registration packs will be available in the Mathematics Common Room
15.00-15.50 **Patrick Bernard** (Paris-Dauphine) *Mather theory and applications pt1*
16.00-16.50 **Diogo A. Gomes** (Instituto Superior Tecnico) *An introduction to mean-field games: the finite state space case pt1*

Tuesday 8th May

- 09.00-09.50 **Diogo A. Gomes** (Instituto Superior Tecnico) *An introduction to mean-field games: the finite state space case pt2*
10.00-10.30 Tea & coffee in the Mathematics Institute Common Room
10.30-11.20 **Patrick Bernard** (Paris-Dauphine) *Mather theory and applications pt2*
11.30-12.20 **Peter Caines** (McGill University) *ϵ -Nash mean field games pt1*
12.45-14.00 Lunch in the Mathematics Institute Common Room
14.30-15.20 **Patrick Bernard** (Paris-Dauphine) *Mather theory and applications pt3*
15.30-16.20 **Diogo A. Gomes** (Instituto Superior Tecnico) *An introduction to mean-field games: the finite state space case pt3*
17.30-19.30 Drinks & buffet & Poster Session in the Mathematics Institute Common Room

Wednesday 9th May

- 09.30-10.20 **Peter Caines** (McGill University) *ϵ -Nash mean field games pt2*
10.00-10.30 Tea & coffee in the Mathematics Institute Common Room
10.30-11.20 **Bruno Gaujal** (INRIA) *Mean field for Markov decision processes: from discrete to continuous optimization pt1*
11.30-12.20 **Peter Caines** (McGill University) *ϵ -Nash mean field games pt3*
12.45-14.00 Lunch in the Mathematics Institute Common Room
14.30-17.30 Contributed talks: 14:30 **G. Ostrovski** *Arnold diffusion in fictitious play*
15:30 **M. Huang** *Random mean field approximation in LQG games with mixed players*
16:30 **J. L. Wu** *On optimal control of stochastic differential equations associated with Levy generators*
17.30-19.30 Drinks & dinner in the Mathematics Institute Common Room

Thursday 10th May

- 09.00-09.50 **Bruno Gaujal** (INRIA) *Mean field for Markov decision processes: from discrete to continuous optimization pt2*
10.00-10.30 Tea & coffee in the Mathematics Institute Common Room
10.30-11.20 **Bruno Gaujal** (INRIA) *Mean field for Markov decision processes: from discrete to continuous optimization pt3*
11:30 Closure

For further information on this and other events see:

<http://go.warwick.ac.uk/mathsevents>

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