

# Essays in infinite dynamic games

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# Propositions

accompanying the PhD dissertation entitled  
“Essays in Infinite Dynamic Games”

by Jasmine Maes

1. Playing according to a new optimal strategy every day, may be the worst strategy possible.
2. Being tolerant of small losses may be crucial to success.
3. If all players have an upper-semicontinuous payoff function, then there exists a time after which they can all agree on which play to follow.
4. Giving equal chances to identical competing players may result in ex ante unequal expected outcomes and comes with a welfare loss.
5. Intuition as well as technical skills are crucial in both mathematics and economics. Because without the former you do not know where to go and without latter you can not get there.
6. When educating young economists we should be careful not to give the impression that economics is merely the study of mathematical recipes for toy problems.
7. An understanding of economics can help individuals avoid situations in which incentives are unfavorably aligned.
8. The societal gains of interdisciplinary cooperation should not be underestimated. As the exact same problem may occur in economics, mathematics and computer science.
9. The easiest way to perform good enough all the time, is to at each time redefine what is good enough.
10. Life is a stochastic game.